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REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 158-90 December 5, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – SEPTEMBER 1990

(Values in Millions of U.S. Dollars)

	Sept. 1990	Aug. 1990	Average Jun-Aug	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 52.3	$ 45.4	$ 46.1	$ 453.9	$ 357.6	26.9%
Imports	$137.6	$192.4	$173.6	$1,364.3	$1,427.0	(4.4%)
Balance	($ 85.3)	($147.0)	($127.5)	($ 910.4)	($1,069.4)	(14.9%)
METAL FORMING MACHINE TOOLS						
Exports	$ 34.3	$ 35.5	$ 37.6	$ 344.2	$ 355.2	(3.1%)
Imports	$ 42.9	$ 61.5	$ 49.3	$ 377.7	$ 425.9	(11.3%)
Balance	($ 8.6)	($ 26.0)	($ 11.7)	($ 33.5)	($ 70.7)	(52.6%)
MACHINE TOOL TOTAL						
Exports	$ 86.5	$ 81.0	$ 83.7	$ 798.1	$ 712.8	12.0%
Imports	$180.5	$253.9	$222.9	$1,741.9	$1,852.8	(6.0%)
Balance	($ 94.0)	($172.9)	($139.2)	($ 943.8)	($1,140.0)	(17.2%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 28.3	$ 27.7	$ 26.1	$ 259.3	$ 183.0	41.7%
Imports	$ 97.9	$142.4	$115.3	$ 931.3	$ 989.4	(5.9%)
Balance	($ 69.6)	($114.7)	($ 89.2)	($ 672.0)	($ 806.4)	(16.7%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$149.3	$151.7	$147.7	$1,357.3	NA	NA
Imports	$140.4	$173.6	$161.7	$1,465.5	NA	NA
Balance	$ 8.9	($ 21.9)	($ 14.0)	($ 108.2)	NA	NA

Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- U.S. machine tool imports fell to $180.5 million in September, 26% lower than the July-August average. Imports from Germany fell to $29.7 million in September after reaching $63.2 million in August and $54.1 million in July.

- U.S. machine tool exports in September were $86.5 million, slightly higher than July and August but a bit lower than the monthly average for 1990. Year-to-date exports ($798.1 million) are on pace to exceed the 1981 record of $1.0 billion.

- The U.S. trade deficit in machine tools improved 17% so far in 1990 compared with 1989.

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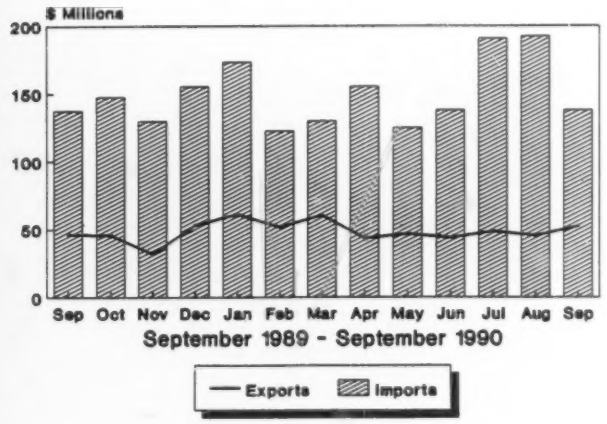
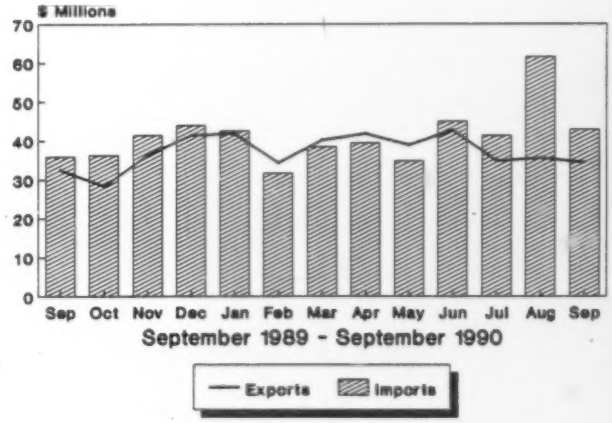
U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

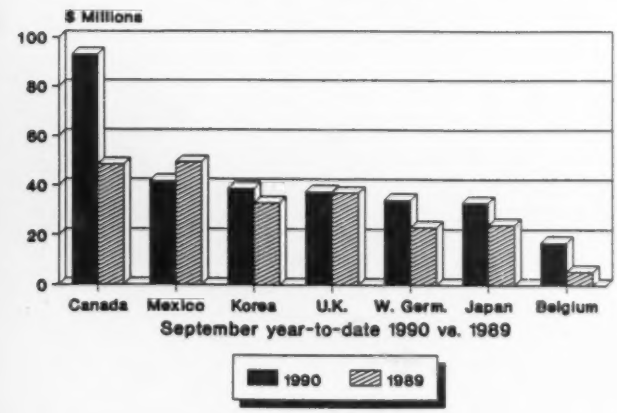
Exports

• Year-to-date exports of metal cutting machines were $453.9 million, up 27% over 1989. All major product groups except grinding machines (down less than 1%) showed increases over last year.

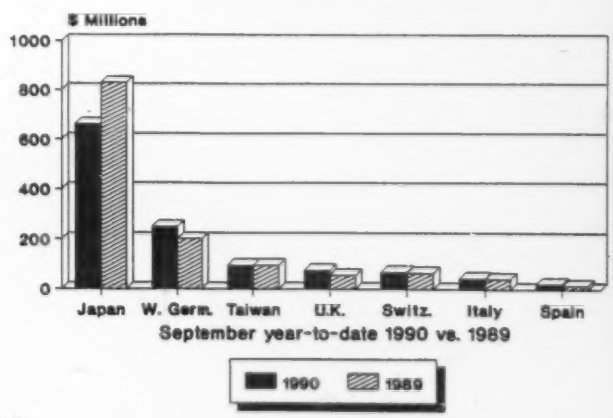
• Canada was the largest market in 1990 through September at $93.1 million, up 92% over 1989. Other large increases include Belgium ($17.2 million, up 208%); India ($16.6 million, up 97%); Australia ($14.0 million, up 71%) and Malaysia ($2.3 million, up 145%).

• West Germany was the largest export market in September, paced by an NC multi-station transfer machine valued at $5.3 million. Also in September: four gear cutting machines to the Soviet Union valued at $2.7 million.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• U.S. metal cutting imports in September fell to $137.6 million, down from record highs in July and August. Metal cutting imports from Germany fell to $24.2 million from $54.2 million in August.

• Year-to-date imports of metal cutting machines reached $1.4 billion, down 4% from 1989. Imports from Japan ($662 million) were down 20%; imports from Germany ($248.9 million) were up 24%.

• Year-to-date imports of boring machines were down 32% from 1990 to $31.4 million; imports of station type machines were up almost 35% to $67.0 million. The major suppliers of station type machines so far in 1990: Japan ($34.1 million); Germany ($18.4 million) and Italy ($4.8 million).

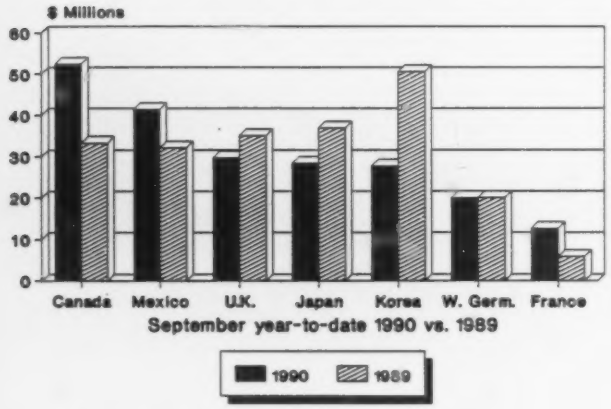
METAL FORMING MACHINE TOOLS

Exports

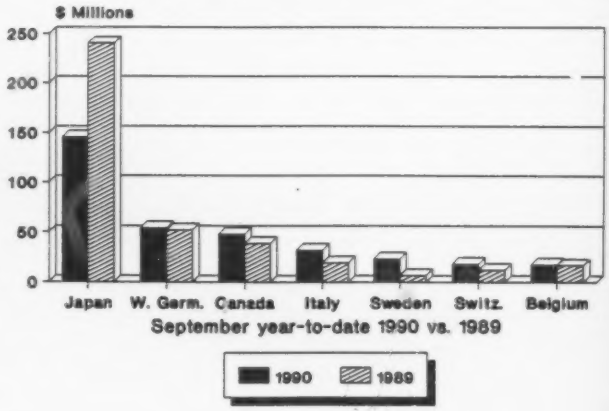
• Year-to-date exports of metal forming machines were $344.2 million, down 3% from 1989. Following Canada ($52.4 million, up 58% over 1989) as year-to-date export leaders were Mexico ($41.4 million, up 29%), the United Kingdom ($29.7 million, down 15%) and Japan ($28.4 million, down 23%).

• In 1990 through September, exports of presses were up 24% to $74.2 million. The leading markets for presses so far in 1990: Mexico ($11.3 million); South Korea ($11.3 million); Canada ($7.1 million) and the United Kingdom ($5.8 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• Imports of metal forming machine tools fell 30% in September from August to $42.9 million. Year-to-date imports of $377.7 million were down 11% from 1989.

• Japan was the leading year-to-date supplier of metal forming machines at $145.3 million, down 40% from 1989. Germany's year-to-date total of $54.3 million was 4% higher than 1989.

• Year-to-date 1990 imports of presses were $81.7 million, down from $121.7 million in 1989. In unit terms, though, imports of presses rose from 1,395 in 1989 through September to 3,028 in 1990 through September.

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of other manufacturing technology dipped in September to $149.3 million from $151.7 million in August.

• Year-to-date exports of machine tool parts and accessories totalled $536.4 million, up slightly from 1989. The leading markets so far in 1990: Canada ($119.4 million, up from $90.7 million in 1989); the United Kingdom ($59.5 million) and Germany ($51.8 million).

• Year-to-date exports of numerical controls for controlling machine tools fell from $31.6 million in 1989 to $23.4 million in 1990.

Imports

• Imports of machine tool parts and accessories were $416.6 million in 1990 through September. The leading sources: Japan ($116.1 million, down from $132.8 million in 1989) and Germany ($102.3 million, up from $88.0 million).

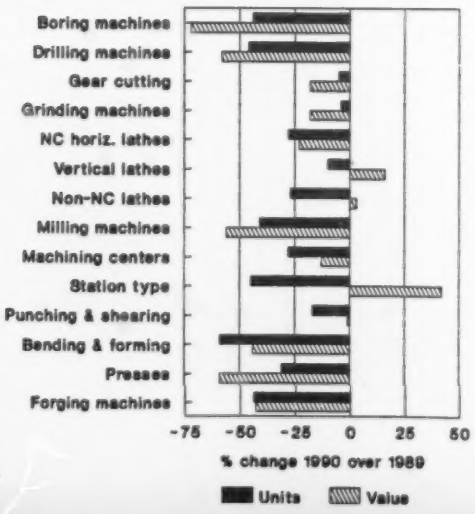
• Year-to-date imports of numerical controls for controlling machine tools were $35.1 million in 1990, compared with $37.5 million last year.

• Imports of industrial robots were $81.6 million in 1990 through September. The corresponding figure for 1989: $136.3 million.

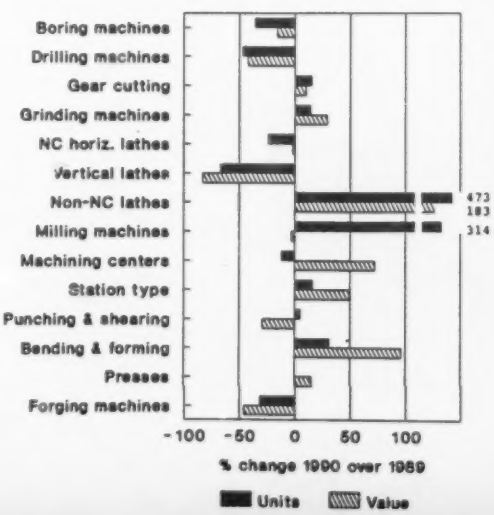
MONTHLY FOCUS

The tables below detail the percentage changes by value and in unit terms of U.S. machine tool imports from Japan and Germany for the first nine months of 1989 and 1990. For Japan, imports are generally down across the board, in both value and unit terms. For Germany, some product types saw increases while others fell. And in some cases, units fell while value increased. For example, imports of machining centers from Germany fell from 209 machines in 1989 through September to 183 in 1990 (a 12% fall), but the value in 1990 was 72% higher.

U.S. Machine Tool Imports from Japan
January-September 1990 vs. 1989



U.S. Machine Tool Imports from W.Germany
January-September 1990 vs. 1989



1990 EXPORTS

METAL CUTTING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Canada	$ 8,820,209	$ 5,797,617	52.14%	$ 93,079,267	$48,476,569	92.01%
Mexico	3,448,498	6,661,079	-48.23	41,851,750	49,411,094	-15.30
Korea	4,955,401	2,391,974	107.17	38,944,660	33,203,088	17.29
U.K.	1,863,521	3,240,440	-42.49	37,621,853	37,038,189	1.58
West Germany	8,985,424	1,860,361	382.99	34,212,588	23,207,259	47.42
Japan	6,269,146	7,146,552	-12.28	33,258,212	24,351,112	36.58
Belgium	723,105	957,009	-24.44	17,187,015	5,588,262	207.56
India	1,225,769	4,695,070	-73.89	16,596,556	8,438,686	96.67
China	1,400,090	1,901,325	-26.36	15,552,797	22,261,641	-30.14
Australia	547,544	3,182,356	-82.79	13,990,972	8,186,096	70.91
Italy	719,809	855,507	-15.86	13,202,789	10,858,970	21.58
Brazil	983,665	925,401	6.30	11,448,300	7,613,628	50.37
Taiwan	744,257	522,368	42.48	9,490,778	7,166,722	32.43
Singapore	1,383,615	906,954	52.56	7,459,882	6,350,779	17.46
France	866,101	85,519	912.76	7,117,168	9,980,424	-28.69
USSR	2,697,820	0	NA	6,404,994	6,479,020	-1.14
Venezuela	997,211	829,927	20.16	5,699,235	5,113,213	11.46
Spain	743,250	42,852	1,634.46	5,203,492	2,807,112	85.37
Switzerland	71,193	390,405	-81.76	4,577,091	3,010,379	52.04
Netherlands	189,199	343,353	-44.90	4,240,016	3,524,073	20.32
Malaysia	122,661	972,466	-87.39	2,273,340	926,675	145.32
Thailand	269,370	201,994	33.36	1,657,647	1,876,029	-11.64
Austria	0	29,816	-100.00	226,757	987,499	-77.04
Indonesia	6,725	28,201	-76.15	172,977	4,096,308	-95.78

METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Canada	$ 6,624,036	$ 5,442,737	21.70%	$ 52,439,014	$33,226,610	57.82%
Mexico	4,268,853	3,927,382	8.69	41,401,043	32,141,903	28.81
U.K.	2,455,806	1,145,530	114.38	29,693,360	35,021,409	-15.21
Japan	2,263,121	4,211,843	-46.27	28,403,657	36,895,420	-23.02
Korea	729,642	4,181,197	-82.55	27,758,848	50,517,137	-45.05
West Germany	2,874,086	1,097,303	161.92	19,984,311	20,012,050	-0.14
France	728,851	535,365	36.14	12,534,098	5,832,356	114.91
China	938,263	497,350	88.65	12,314,542	8,914,867	38.13
Taiwan	1,324,220	529,633	150.03	11,493,773	15,053,891	-23.65
Italy	631,394	738,009	-14.45	7,276,085	6,707,599	8.48
Netherlands	1,056,874	1,055,977	0.08	6,771,658	5,749,761	17.77
India	155,782	17,654	782.42	5,892,777	7,560,110	-22.05
Indonesia	1,296,993	2,093,331	-38.04	5,636,467	152,452	3,597.21
Brazil	393,830	1,033,206	-61.88	5,496,371	5,808,739	-5.38
Spain	522,896	170,589	206.52	5,162,828	3,693,191	39.79
Singapore	558,499	263,200	112.20	4,837,993	6,644,562	-27.19
Australia	798,437	154,478	416.86	4,713,616	5,469,892	-13.83
Malaysia	306,262	125,526	143.98	4,344,033	1,378,467	215.14
Thailand	82,288	370,817	-77.81	3,689,932	3,319,947	11.14
Belgium	227,979	154,389	47.67	2,538,998	2,385,400	6.44
Austria	55,156	386,078	-85.71	2,164,022	662,010	226.89
Switzerland	201,015	192,190	4.59	1,888,536	1,214,087	55.55
Venezuela	390,369	59,820	552.57	1,418,364	7,686,018	-81.55
USSR	0	0	NA	694,819	976,510	-28.85

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Canada	$ 15,444,245	$ 11,240,354	37.40%	$145,518,281	$81,703,179	78.11%
Mexico	7,717,351	10,588,461	-27.12	83,252,793	81,552,997	2.08
U.K.	4,319,327	4,385,970	-1.52	67,315,213	72,059,598	-6.58
Korea	5,685,043	6,573,171	-13.51	66,703,508	83,720,225	-20.33
Japan	8,532,267	11,358,395	-24.88	61,661,869	61,246,532	0.68
West Germany	11,859,510	2,957,664	300.98	54,196,899	43,219,309	25.40
China	2,338,353	2,398,675	-2.51	27,867,339	31,176,508	-10.61
India	1,381,551	4,712,724	-70.68	22,489,333	15,998,796	40.57
Taiwan	2,068,477	1,052,001	96.62	20,984,551	22,220,613	-5.56
Italy	1,351,203	1,593,516	-15.21	20,478,874	17,566,569	16.58
Belgium	951,084	1,111,398	-14.42	19,726,013	7,973,662	147.39
France	1,594,952	620,884	156.88	19,651,266	15,812,780	24.27
Australia	1,345,981	3,336,834	-59.66	18,704,588	13,655,988	36.97
Brazil	1,377,495	1,958,607	-29.67	16,944,671	13,422,367	26.24
Singapore	1,942,114	1,170,154	65.97	12,297,875	12,995,341	-5.37
Netherlands	1,246,073	1,399,330	-10.95	11,011,674	9,273,834	18.74
Spain	1,266,146	213,441	493.21	10,366,320	6,500,303	59.47
Venezuela	1,387,580	889,747	55.95	7,117,599	12,799,231	-44.39
USSR	2,697,820	0	NA	7,099,813	7,455,530	-4.77
Malaysia	428,923	1,097,992	-60.94	6,617,373	2,305,142	187.07
Switzerland	272,208	582,595	-53.28	6,465,627	4,224,466	53.05
Indonesia	1,303,718	2,121,532	-38.55	5,809,444	4,248,760	36.73
Thailand	351,658	572,811	-38.61	5,347,579	5,195,976	2.92
Austria	55,156	415,894	-86.74	2,390,779	1,649,509	44.94

1990 IMPORTS

METAL CUTTING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Japan	$76,786,328	$ 82,828,649	-7.29%	$662,223,182	$ 830,089,590	-20.22%
West Germany	24,174,207	54,244,598	-55.43	248,892,189	200,111,116	24.38
Taiwan	8,693,755	9,779,840	-11.11	95,487,750	94,464,210	1.08
U.K.	5,883,753	7,444,968	-20.97	74,950,250	55,324,111	35.47
Switzerland	6,220,985	11,407,997	-45.47	68,638,975	63,539,362	8.03
Italy	2,630,744	4,333,233	-39.29	44,123,559	40,635,331	8.58
Spain	575,155	3,854,207	-85.08	20,694,510	14,763,093	40.18
France	411,970	1,749,607	-76.45	20,416,106	17,966,969	13.63
Canada	1,313,765	1,116,904	17.63	16,528,039	15,684,817	5.38
Singapore	1,174,361	1,107,136	6.07	14,837,621	11,886,541	24.83
Korea	1,111,870	2,525,145	-55.97	14,800,942	18,921,240	-21.78
Sweden	927,290	2,531,801	-63.37	12,164,462	9,794,734	24.19
Brazil	586,911	493,347	18.97	10,082,334	5,109,852	97.31
Belgium	393,197	205,399	91.43	1,625,914	4,500,680	-63.87

METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Japan	$18,556,702	$ 20,859,668	-11.04%	$145,319,640	$ 240,232,507	-39.51%
West Germany	5,514,397	8,913,567	-38.13	54,286,831	52,087,606	4.22
Canada	5,409,200	5,321,903	1.64	48,034,743	38,909,360	23.45
Italy	828,127	5,304,790	-84.39	31,940,783	19,498,432	63.81
Sweden	5,552,986	12,935,168	-57.07	23,391,335	6,584,142	255.27
Switzerland	1,871,888	1,949,858	-4.00	18,152,010	11,886,125	52.72
Belgium	327,216	1,186,838	-72.43	17,872,135	16,845,391	6.10
U.K.	1,320,038	1,884,725	-29.96	11,165,630	10,569,852	5.64
Taiwan	654,271	607,741	7.66	7,835,595	6,703,746	16.88
Spain	191,671	268,229	-28.54	3,270,910	2,043,745	60.04
France	289,083	362,485	-20.25	3,107,090	1,310,373	137.11
Korea	1,391	390,655	-99.64	515,738	294,799	74.95
Brazil	2,406	200,000	-98.80	202,406	4,517,850	-95.52
Singapore	62,380	5,233	1,092.05	132,580	728,562	-81.80

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Japan	$95,343,030	$103,688,317	-8.05%	$807,542,822	$1,070,322,097	-24.55%
West Germany	29,688,604	63,158,165	-52.99	303,179,020	252,198,722	20.21
Taiwan	9,348,026	10,387,581	-10.01	103,325,345	101,167,956	2.13
Switzerland	8,092,873	13,357,855	-39.41	86,790,385	75,425,487	15.07
U.K.	7,203,791	9,329,693	-22.79	86,115,802	65,893,963	30.69
Italy	3,458,871	9,638,023	-64.11	76,064,342	60,133,763	26.49
Canada	6,722,965	6,438,807	4.41	64,562,782	54,594,177	18.26
Sweden	6,480,276	15,466,969	-58.10	35,555,797	16,378,876	117.08
Spain	766,826	4,122,436	-81.40	23,965,420	16,806,838	42.59
France	701,053	2,112,092	-66.81	23,523,196	19,277,342	22.03
Belgium	720,413	1,392,237	-48.26	19,498,049	21,346,071	-8.66
Korea	1,113,261	2,915,800	-61.82	15,316,680	19,216,039	-20.29
Singapore	1,236,741	1,112,369	11.18	14,970,201	12,615,103	18.67
Brazil	589,317	693,347	-15.00	10,284,740	9,627,702	6.82

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990 Units	SEPTEMBER 1990 Value	SEP'90 Y-T-D TOTALS Units	SEP'90 Y-T-D TOTALS Value	SEPTEMBER 1989 Units	SEPTEMBER 1989 Value	SEP'89 Y-T-D TOTALS Units	SEP'89 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	5,218	13,541,688	45,301	122,593,523	6,537	10,153,000	44,218	111,057,418
Boring Machines	13	892,848	130	14,370,322	7	455,605	211	12,740,310
Drilling Machines	72	2,247,262	811	14,910,443	74	1,667,003	289	13,027,457
Gear Cutting Machines	16	8,205,773	175	43,900,659	8	2,758,714	192	28,237,064
Grinding Machines	412	8,753,533	2,890	98,104,939	234	10,589,426	2,868	98,396,419
Horizontal Lathes NC	29	3,059,742	329	35,262,360	32	5,329,579	183	20,310,826
Vertical Lathes NC	5	2,322,630	53	10,143,448	0	0	15	2,033,391
Lathes Non-NC	51	1,033,985	570	12,943,818	37	530,811	387	10,417,196
Milling Machines	38	5,262,002	334	29,841,729	30	1,466,905	446	22,857,577
Machining Centers	13	2,443,148	290	44,603,969	75	7,466,254	259	34,281,242
Station Type Machines	5	5,650,047	56	26,716,946	7	4,126,477	44	18,444,241
Other Metal Cutting	288	5,325,005	2,908	57,722,578	201	5,348,111	1,795	44,807,494
Punching & Shearing Machines	56	3,258,296	1,112	48,739,774	122	4,957,288	944	45,635,624
Bending & Forming Machines	165	8,316,381	1,404	52,564,457	63	3,118,880	779	36,687,094
Presses	126	5,543,751	1,698	74,192,075	123	6,266,003	1,136	59,999,582
Forging Machines	12	2,088,733	287	36,972,225	109	3,380,224	603	29,226,324
Other Metal Forming	168	8,580,087	2,339	74,512,010	208	11,018,013	3,180	124,605,124
TOTAL	6,687	86,524,911	60,687	798,095,275	7,867	78,632,293	57,549	712,764,383

PRODUCT TYPES	% CHANGE AUG 90' - SEP 90' Units	% CHANGE AUG 90' - SEP 90' Value	% CHANGE SEP 89' - SEP 90' Units	% CHANGE SEP 89' - SEP 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	7.30	-7.32	-20.18	33.38	2.45	10.39
Boring Machines	62.50	-12.84	85.71	95.97	-38.39	12.79
Drilling Machines	-26.53	35.47	-2.70	34.81	180.62	14.45
Gear Cutting Machines	300.00	265.30	100.00	197.45	-8.85	55.47
Grinding Machines	27.16	-37.79	76.07	-17.34	0.77	-0.30
Horizontal Lathes NC	-3.33	18.23	-9.38	-42.59	79.78	73.61
Vertical Lathes NC	-58.33	-52.19	NA	NA	253.33	398.84
Lathes Non-NC	-17.74	-37.87	37.84	94.79	47.29	24.25
Milling Machines	35.71	180.50	26.67	258.71	-25.11	30.56
Machining Centers	-18.75	5.27	-82.67	-67.28	11.97	30.11
Station Type Machines	NA	NA	-28.57	36.92	27.27	44.85
Other Metal Cutting	24.14	-9.15	43.28	-0.43	62.01	28.82
Punching & Shearing Machines	-29.11	44.85	-54.10	-34.27	17.80	6.80
Bending & Forming Machines	-38.66	-11.77	161.90	166.65	80.23	43.28
Presses	-5.26	13.73	2.44	-11.53	49.47	23.65
Forging Machines	-55.56	-62.37	-88.99	-38.21	-52.40	26.50
Other Metal Forming	-27.90	41.23	-19.23	-22.13	-26.45	-40.20
TOTAL	4.19	6.88	-15.00	10.04	5.45	11.97

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	25[illegible]	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		SEP'90 Y-T-D TOTALS		SEPTEMBER 1989		SEP'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	78,484	11,149,478	686,157	113,502,989	77,048	15,144,015	527,191	122,697,733
Boring Machines	52	3,494,230	461	31,399,966	46	5,045,649	644	46,262,632
Drilling Machines	49	2,266,373	1,111	34,565,502	96	2,544,792	1,414	62,988,949
Gear Cutting Machines	69	4,625,890	409	37,226,404	16	3,220,313	531	33,456,075
Grinding Machines	616	25,521,740	6,542	226,741,798	656	18,270,938	6,115	218,847,865
Horizontal Lathes NC	194	20,111,149	2,465	239,587,411	366	33,946,089	3,223	293,446,008
Vertical Lathes NC	4	689,943	141	19,582,703	12	1,799,909	120	19,174,059
Lathes Non-NC	500	7,286,875	6,110	88,364,341	300	4,584,582	3,988	65,061,895
Milling Machines	363	7,383,527	4,155	65,479,331	448	6,954,433	4,477	87,619,106
Machining Centers	147	27,592,987	2,383	316,384,692	323	34,561,766	2,774	303,700,589
Station Type Machines	14	14,932,439	138	67,042,977	4	2,526,536	164	49,554,882
Other Metal Cutting	233	14,697,321	3,724	143,597,527	289	11,236,576	3,766	142,126,123
Punching & Shearing Machines	103	4,806,367	1,318	55,272,524	112	6,143,562	1,345	58,408,689
Bending & Forming Machines	161	5,831,579	1,727	69,321,030	154	4,509,033	2,015	70,586,686
Presses	416	10,399,978	3,028	81,698,564	134	5,006,807	1,395	121,676,699
Forging Machines	144	8,927,234	783	50,125,743	51	3,645,170	1,189	67,040,342
Other Metal Forming	204	10,822,213	2,061	102,049,008	134	13,896,994	3,918	90,126,555
TOTAL	81,753	180,539,323	722,713	1,741,942,510	80,189	173,037,164	564,269	1,852,774,887

PRODUCT TYPES	% CHANGE AUG'90 - SEP'90		% CHANGE SEP'89 - SEP'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	12.22	-15.53	1.86	-26.38	30.15	-7.49
Boring Machines	30.00	-23.99	13.04	-30.75	-28.42	-32.13
Drilling Machines	-62.31	-52.14	-48.96	-10.94	-21.43	-45.12
Gear Cutting Machines	27.78	-38.20	331.25	43.65	-22.98	11.27
Grinding Machines	-24.97	-19.82	-6.10	39.68	6.98	3.61
Horizontal Lathes NC	-29.20	-33.58	-46.99	-40.76	-23.52	-18.35
Vertical Lathes NC	-89.74	-78.10	-66.67	-61.67	17.50	2.13
Lathes Non-NC	0.40	-12.63	66.67	58.94	53.21	35.82
Milling Machines	4.31	-5.21	-18.97	6.17	-7.19	-25.27
Machining Centers	-38.49	-32.34	-54.49	-20.16	-14.10	4.18
Station Type Machines	-17.65	-0.12	250.00	491.02	-15.85	35.29
Other Metal Cutting	-57.01	-46.01	-19.38	30.80	-1.12	1.04
Punching & Shearing Machines	-36.81	-26.67	-8.04	-21.77	-2.01	-5.37
Bending & Forming Machines	-25.46	-61.37	4.55	29.33	-14.29	-1.79
Presses	-53.88	-50.55	210.45	107.72	117.06	-32.86
Forging Machines	242.86	133.40	182.35	144.91	-34.15	-25.23
Other Metal Forming	-10.13	-16.92	52.24	-22.13	-47.40	13.23
TOTAL	9.75	-28.89	1.95	4.34	28.08	-5.98

U.S. EXPORTS
Metal Cutting Machine Tools - September 90

RELEASED: December 5, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	53	4710	7	520
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	57	9877	1	258
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	16	3657	2	664
100035	Horiz. mach. ctrs., ATC	41	11265	2	529
100045	Mach. ctrs., n.e.c.	176	19804	8	992
200010	Unit construction mach. (single station transfer), NC	2	230	2	230
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	8	16543	1	5284
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	22	5251	2	600
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	236	17947	17	1153
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	51	6823	8	1090
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	20	5242	2	216
190030	Horiz. engine or toolroom lathes, non-NC	89	1698	5	84
190050	Automatic bar and/or chucking mach., single spindle, non-NC	11	287	1	4
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	41	2001	6	290
190090	Horiz. lathes, n.e.c., non-NC	341	4461	39	656
911060	Vertical turret lathes, multiple spindle, NC	2	622	1	559
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	1	691
915070	Vertical lathes, excl. VTL's, n.e.c., NC	34	7858	3	1073
991050	Vertical turret lathes, non-NC	26	609	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	62	3887	0	0
8459100000	Way-type unit head machines	17	2338	2	136
210080	Other drilling machines, NC	82	7582	12	1383
290040	Drilling machines, multiple spindle, non-NC	30	1367	1	43
290050	Drilling machines, radial, non-NC	18	152	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	78	1793	6	287
290090	Drilling machines, n.e.c., non-NC	603	4017	53	535
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	17	961	4	180
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799	0	0
400040	Boring machines, vertical, NC	6	2024	2	200
400050	Boring machines, vertical, non-NC	36	1180	2	31
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	28	1423	5	482
510080	Milling machines, knee type, NC	19	1990	4	809
590030	Milling machines, knee type, non-NC	91	3427	17	853
610080	Milling machines, excl. knee type, n.e.c., NC	48	17935	6	3022
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	152	5690	11	578
700020	Threading or tapping machines, n.e.c., NC	26	1203	0	0
700080	Threading or tapping machines, n.e.c., non-NC	333	3934	31	878
8460110080	Flat surface grinding mach., NC	59	6674	8	235
190010	Flat surface grinding mach., recip.-table type, non-NC	49	859	11	252
190050	Flat surface grinding mach., n.e.c., non-NC	26	4711	1	237
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	76	23210	2	1112
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	45	5744	10	630
290030	Grinding mach., internal cylindrical, non-NC	35	2855	3	176
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	304	11758	62	1840
310080	Sharpening machines (tool & cutter grinding), NC	38	3882	3	91
390050	Sharpening machines (tool & cutter grinding), non-NC	763	12094	64	946
400060	Honing or lapping machines, NC	3	618	2	126
400080	Honing or lapping machines, non-NC	632	11602	159	1810
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	7	987	1	222
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	853	13112	86	1076
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	224	6060	11	125
200010	Shaping or slotting machines, NC	9	365	1	157
200090	Shaping or slotting machines, non-NC	27	631	2	18
300060	Broaching machines, NC	11	1223	1	84
300080	Broaching machines, non-NC	23	1347	4	55
401050	Gear hobbers	22	3209	2	703
401070	Gear shapers	26	5189	1	278
401090	Gear cutting machines, n.e.c.	78	31831	12	7180
405060	Gear grinding or finishing machines	49	3672	1	45
500050	Sawing or cutting-off machines, NC	102	3543	4	68
500090	Sawing or cutting-off machines, non-NC	1112	14576	155	2194
9000000001	Metal cutting machine tools, n.e.c.	987	20019	72	1225
9800000001	Used or rebuilt machine tools	3808	47606	447	4960
9900000001	Machine tools valued at less than $2,500	28102	17756	3507	2102
	Cutting Total			4896	52257
	Y-T-D Cutting Total	40456	453883		
	NC Y-T-D Cutting Total*	1386	195665		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	1	258
100025	0	0	0	0	0	0	0	0	1	159
100035	0	0	0	0	0	0	0	0	2	529
100045	0	0	0	0	0	0	0	0	1	500
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	532
110030	0	0	0	0	1	78	0	0	1	112
110050	0	0	0	0	5	524	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	216
190030	0	0	0	0	0	0	0	0	1	23
190050	0	0	0	0	0	0	0	0	1	4
190070	0	0	0	0	0	0	0	0	1	57
190090	5	85	0	0	0	0	0	0	4	105
911060	0	0	0	0	0	0	0	0	1	559
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	1	691
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	752
290040	0	0	0	0	0	0	0	0	1	43
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	4	113
290090	0	0	0	0	0	0	0	0	24	174
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	31	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	297	1	27
510080	0	0	0	0	0	0	0	0	3	531
590030	0	0	0	0	0	0	0	0	3	125
610080	0	0	0	0	0	0	0	0	1	83
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	19	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	99	0	0	2	8
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	508
290010	0	0	0	0	0	0	6	431	1	50
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	19	205	16	515
310080	0	0	0	0	0	0	0	0	1	26
390050	0	0	0	0	0	0	0	0	15	181
400060	0	0	0	0	0	0	0	0	1	26
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	1	222
900080	0	0	0	0	0	0	0	0	18	297
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	3	14	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	84
300080	0	0	0	0	0	0	0	0	1	20
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	4	68
500090	1	16	0	0	0	0	0	0	22	254
9000000001	0	0	0	0	0	0	2	6	17	138
9800000001	19	299	0	0	0	0	0	0	76	453
9900000001	129	117	0	0	117	22	19	13	314	375
Month Tot	156	548	0	0	124	723	52	984	547	8820
Y-T-D Tot	1497	13991	133	227	514	17187	577	11448	4861	93079
NC YTD Tot*	18	7137	1	23	136	15345	13	2216	313	52427

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	1	505	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	2	443	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	7	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	875	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	3	185	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	124	0	0	0	0	0	0
610080	0	0	1	90	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	2	12	0	0	0	0	0	0
8460110080	0	0	4	132	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	231	0	0	0	0	0	0	0	0
310080	0	0	1	32	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	22	3	17	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	13	1	9	0	0	0	0	8	78
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	1	278	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	22	1	17	0	0	3	54
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	0	0	10	105	13	334	0	0	7	421
9900000001	0	0	161	46	0	0	0	0	251	168
Month Tot	14	1400	186	866	16	1226	1	7	269	720
Y-T-D Tot	192	15553	986	7117	696	16597	94	173	1332	13203
NC YTD Tot*	38	9285	50	3253	22	8051	0	0	48	4123

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	38	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	190	0	0
200010	0	0	0	0	0	0	2	230	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	69	0	0
110030	12	713	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	17	332	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	198	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	121	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	2	9	0	0	23	308	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	33	0	0
510080	1	278	0	0	0	0	0	0	0	0
590030	2	128	0	0	0	0	0	0	0	0
610080	0	0	2	2020	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	6	119	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	2	19	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	1	237	0	0	0	0	0	0
210080	1	604	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	1	115	0	0	0	0	0	0	0	0
290050	1	12	0	0	0	0	8	104	3	24
310080	0	0	0	0	0	0	0	0	0	0
390050	16	500	1	8	2	10	5	39	0	0
400060	0	0	0	0	0	0	1	99	0	0
400080	13	185	101	1058	1	100	1	3	3	23
900060	0	0	0	0	0	0	0	0	0	0
900080	12	87	3	20	0	0	14	178	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	5	3	77	0	0	3	27	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	643	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	4	1755	2	1382	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	34	552	3	41	0	0	10	141	12	115
9000000001	11	280	0	0	0	0	3	13	0	0
9800000001	13	298	1	26	0	0	91	985	0	0
9900000001	383	115	105	77	9	13	325	202	13	20
Month Tot	506	6269	224	4955	12	123	521	3448	32	189
Y-T-D Tot	3369	33258	1513	38945	386	2273	7516	41852	430	4240
NC YTD Tot*	101	10782	57	12169	2	131	153	11909	9	860

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	94	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	22	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	4	44	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	3	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	669	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	187	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	2	75
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	3	404	0	0	0	0	1	145	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	14	0	0	0	0	2	28	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	85	0	0	1	6	0	0	2	10
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	5	83	0	0	20	341	1	9
9000000001	0	0	18	456	2	20	4	20	1	4
9800000001	1	11	0	0	3	15	25	182	36	90
9900000001	47	37	17	17	38	30	26	28	68	81
Month Tot	61	1384	41	743	44	71	78	744	110	269
Y-T-D Tot	1145	7460	650	5203	881	4577	611	9491	351	1658
NC YTD Tot*	16	2395	42	1454	4	1182	23	5381	2	122

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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	6	482	0	0
100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	4	302	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	1	5284	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	155	0	0	0	0	0	0	0	0
110050	1	123	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	39	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	5	233	0	0	0	0	0	0	0	0
190090	2	20	0	0	0	0	0	0	6	62
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	2	136	0	0
210080	0	0	0	0	0	0	0	0	5	325
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	2	174	0	0
290090	2	10	0	0	0	0	1	31	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	4	180	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	2	200	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	125
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	11	476
610080	0	0	0	0	1	159	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	18	1	235
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	6	554	4	20	12	90
8460110080	0	0	0	0	0	0	0	0	4	103
190010	0	0	0	0	0	0	2	118	9	134
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	3	150	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	2	61	0	0
290050	0	0	0	0	0	0	5	200	0	0
310080	0	0	0	0	0	0	0	0	1	33
390050	2	53	0	0	0	0	22	146	1	9
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	3	32	356
900060	0	0	0	0	0	0	0	0	0	0
900080	6	89	0	0	2	9	5	57	11	130
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	4	0	0
200010	0	0	0	0	0	0	0	0	1	157
200090	2	18	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	3	35
401050	0	0	0	0	0	0	1	60	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	4	2698	0	0	2	1345	0	0
405060	0	0	0	0	0	0	1	45	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	16	177	0	0	0	0	5	65	21	307
9000000001	1	7	0	0	2	20	4	22	7	240
9800000001	16	181	0	0	22	204	9	375	105	982
9900000001	284	109	0	0	213	50	288	158	700	424
Month Tot	351	1864	4	2698	246	997	370	8985	931	4224
Y-T-D Tot	3482	37622	27	6405	766	5699	2301	34213	6146	32413
NC YTD Tot*	173	24198	0	0	12	1057	47	11174	106	10992

Please see notes on last page of the metal forming section.

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RELEASED: December 5, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	248	7500	13	240
8462100030	Headers and upsetters, including cold headers	45	15824	4	1615
100050	Forging or die stamping machines, and hammers, n.e.c.	242	21149	8	474
210080	Bending, folding, straight. or flat. mach., incl presses, NC	250	24434	30	4846
290030	Press brakes, non-NC	127	2834	3	17
290040	Bending rolls, non-NC	63	1400	6	65
290050	Bending, folding, straight., or flat., n.e.c., non-NC	964	23897	126	3389
310080	Shearing machines, NC	66	6024	6	332
390050	Shearing machines, non-NC	262	7164	14	1425
410080	Punching or notching mach., incl. comb. punch & shear, NC	129	18559	5	487
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	655	16993	31	1015
910060	Hydraulic presses, NC	59	4214	10	460
910090	Hydraulic presses, non-NC	498	20710	40	1942
990030	Presses, n.e.c., NC	125	10380	14	431
990040	Presses, mechanical, non-NC	84	8796	14	1432
990060	Presses, n.e.c., non-NC	932	30093	48	1279
8463100080	Draw benches for bars, tubes, profiles, wire or the like	166	4562	22	857
200080	Thread rolling machines	48	2146	9	357
300080	Machines for working wire	568	17372	55	1948
900080	Metal forming machine tools, n.e.c.	1309	42932	69	5177
9800000002	Used or rebuilt machine tools	2649	49024	194	5554
9900000002	Machine tools valued at less than $2,500	10742	8207	1070	926
	Forming Total			1791	34268
	Y-T-D Forming Total	20231	344212		
	NC Y-T-D Forming Total	629	63611		
	Cutting and Forming Totals:				
	Monthly Total			6687	86525
	Y-T-D Total	60687	798095		
	NC Y-T-D Total*	2015	259276		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	536401	0	62019
2000000000	Parts for working rubber or plastics - heading 8477	0	210730	0	22327
2710003070	Quenching or cutting oils	0	17187	0	573
8428900010	Industrial robots for lifting, handling, loading or unload	272	5422	24	585
8431390090	Parts industrial robots, handling and loading - heading 8428	0	55111	0	6616
8456100000	Laser, light or photon beam for working any material	694	34402	66	2632
200000	Ultrasonic process for working any material	66	1702	3	39
8477106010	Injection molding mach., for rubber or oth. thermosetting	234	11163	22	1696
106070	Injection molding mach., for thermoplastics	327	39177	53	4809
200010	Extruders for rubber or other thermosetting materials	267	10614	24	1166
200050	Extruders for processing thermoplastics	650	33279	34	5259
300000	Blow molding machines	477	35131	28	948
400000	Vacuum-molding and other thermoforming machines	456!	11707	38	308
510010	Machines for molding or retreading pneumatic tires	797	14427	188	2144
510090	Machines for molding or otherwise forming inner tubes	321	27179	39	1011
590000	Machines for molding or otherwise forming n.e.c.	1008	18398	123	2092
800000	Machines for working rubber or plastics n.e.c.	4223	83938	1202	7927
8479899040	Industrial robots, n.e.c.	4746	43635	454	3606
908040	Industrial robot parts	0	23010	0	2592
8537100030	Numerical controls for controlling machine tools	1573	23429	152	2351
9024100000	Machines and appliances for testing metals	0	57904	0	11008
9031100000	Machines for balancing mechanical parts	0	21711	0	1621
300000	Profile projectors	0	5788	0	128
9032810040	Industrial process control instr., hydraulic or pneumatic	508772	35882	83902	5834

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	104
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	8	2379
290030	0	0	0	0	0	0	0	0	3	17
290040	0	0	0	0	0	0	0	0	3	28
290050	2	27	0	0	0	0	2	31	22	486
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	7	275
410080	0	0	0	0	0	0	0	0	1	44
490050	0	0	0	0	0	0	0	0	16	435
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	13	0	0	0	0	1	159
990030	0	0	0	0	0	0	0	0	4	21
990040	1	558	0	0	0	0	0	0	4	123
990060	0	0	1	22	0	0	0	0	3	126
8463100080	0	0	0	0	2	30	4	91	4	122
200080	0	0	0	0	0	0	2	155	0	0
300080	0	0	0	0	1	25	2	38	5	54
900080	4	198	1	20	0	0	1	25	6	69
9800000002	1	13	0	0	8	167	0	0	32	2013
9900000002	4	3	0	0	5	6	64	53	197	168
Month Tot	12	798	3	55	16	228	75	394	317	6624
Y-T-D Tot	413	4714	62	2164	548	2539	517	5496	3268	52439
NC YTD Tot	26	1908	0	0	0	0	8	501	126	16645
C&F Month	168	1346	3	55	140	951	127	1377	864	15444
C&F Y-T-D	1910	18705	195	2391	1062	19726	1094	16945	8129	145518
C&F NC YTD*	44	9046	1	23	136	15345	21	2717	439	69072

Other Manufacturing Technology

1000000000	0	1756	0	65	0	772	0	1359	0	11573
2000000000	0	1551	0	86	0	676	0	711	0	5035
2710003070	0	22	0	0	0	3	0	0	0	148
8428900010	1	35	0	0	1	15	0	0	4	263
8431390090	0	83	0	0	0	0	0	0	0	1799
8456100000	0	0	0	0	2	49	0	0	2	219
200000	1	14	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	5	370	1	47
106070	2	189	0	0	0	0	8	540	11	1123
200010	0	0	0	0	0	0	0	0	20	538
200050	0	0	1	41	1	178	0	0	12	302
300000	0	0	0	0	0	0	0	0	1	211
400000	5	42	0	0	0	0	1	18	0	0
510010	0	0	0	0	125	23	0	0	4	118
510090	4	11	0	0	1	421	0	0	0	0
590000	3	16	2	28	1	57	0	0	2	130
800000	11	212	0	0	4	154	18	283	55	1714
8479899040	0	0	0	0	1	45	0	0	338	2020
908040	0	6	0	0	0	0	0	0	0	1537
8537100030	1	11	0	0	0	0	0	0	5	54
9024100000	0	296	0	19	0	85	0	116	0	848
9031100000	0	42	0	0	0	0	0	0	0	809
300000	0	0	0	0	0	0	0	0	0	21
9032810040	678	53	343	17	1286	64	145	7	2624	172

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	24	3	30	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	5	220	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	17
290050	0	0	2	126	0	0	43	1237	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	28	0	0	0	0
410080	0	0	0	0	0	0	0	0	1	186
490050	0	0	1	209	0	0	0	0	4	248
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	8	81
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	1	8	1	17	0	0	3	43
8463100080	4	355	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	10	260	2	67	0	0	0	0	0	0
900080	1	176	0	0	3	59	0	0	4	38
9800000002	1	136	2	64	0	0	3	60	0	0
9900000002	14	12	15	11	26	22	0	0	20	19
Month Tot	30	938	29	729	34	156	46	1297	41	631
Y-T-D Tot	364	12315	476	12534	381	5893	241	5636	288	7276
NC YTD Tot	3	2629	41	4251	0	0	3	576	9	958
C&F Month	44	2338	215	1595	50	1382	47	1304	310	1351
C&F Y-T-D	556	27867	1462	19651	1077	22489	335	5809	1620	20479
C&F NC YTD*	41	11914	91	7504	22	8051	3	576	57	5081

Other Manufacturing Technology

1000000000	0	1100	0	2866	0	192	0	51	0	1234
2000000000	0	1638	0	136	0	648	0	37	0	210
2710003070	0	0	0	0	0	0	0	0	0	5
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	47	0	116	0	18	0	0	0	97
8456100000	0	0	0	0	0	0	0	0	4	163
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	2	145
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	1	9	0	0	0	0	0	0
510010	0	0	0	0	0	0	1	11	1	73
510090	1	72	0	0	1	75	0	0	1	7
590000	0	0	10	148	0	0	0	0	3	49
800000	34	1889	20	798	2	69	0	0	0	0
8479899040	0	0	8	49	0	0	0	0	4	442
908040	0	0	0	107	0	0	0	0	0	73
8537100030	0	0	23	321	0	0	0	0	4	60
9024100000	0	160	0	126	0	20	0	0	0	44
9031100000	0	0	0	0	0	301	0	0	0	3
300000	0	0	0	0	0	0	0	0	0	35
9032810040	8	7	1975	108	20493	77	185	14	5147	317

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	36	0	0	0	0	2	5	0	0
8462100030	3	1177	0	0	0	0	0	0	0	0
100050	0	0	4	188	0	0	0	0	0	0
210080	0	0	5	230	2	89	2	116	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	2	20	0	0
290050	6	153	4	27	4	109	10	443	2	15
310080	1	66	0	0	0	0	2	80	0	0
390050	0	0	0	0	0	0	4	150	0	0
410080	0	0	0	0	0	0	0	0	3	257
490050	0	0	2	6	0	0	6	79	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	21	1440	1	60
990030	0	0	6	172	1	108	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	33	513	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	7	181	0	0	0	0	4	18	0	0
900080	2	42	5	65	0	0	8	446	10	260
9800000002	23	540	2	34	0	0	79	741	7	435
9900000002	78	67	7	6	0	0	224	219	34	31
Month Tot	121	2263	35	730	7	306	397	4269	57	1057
Y-T-D Tot	1473	28404	585	27759	91	4344	4449	41401	304	6772
NC YTD Tot	26	3201	49	4013	16	920	92	5424	42	3642
C&F Month	627	8532	259	5685	19	429	918	7717	89	1246
C&F Y-T-D	4842	61662	2098	66704	477	6617	11965	83253	734	11012
C&F NC YTD*	127	13983	106	16182	18	1051	245	17333	51	4502

Other Manufacturing Technology

1000000000	0	5870	0	5416	0	267	0	2866	0	1263
2000000000	0	1325	0	346	0	174	0	1173	0	1090
2710003070	0	11	0	10	0	12	0	34	0	0
8428900010	4	68	0	0	0	0	0	0	0	0
8431390090	0	188	0	588	0	0	0	317	0	112
8456100000	25	1350	1	12	0	0	15	340	0	0
200000	1	12	0	0	0	0	1	13	0	0
8477106010	0	0	0	0	0	0	16	1279	0	0
106070	1	66	0	0	0	0	9	549	3	734
200010	0	0	1	15	0	0	3	613	0	0
200050	3	72	0	0	0	0	10	136	0	0
300000	2	165	0	0	0	0	5	41	0	0
400000	13	19	0	0	0	0	15	185	0	0
510010	0	0	4	521	6	135	23	544	0	0
510090	0	0	1	30	0	0	11	145	1	4
590000	8	611	16	245	1	9	39	236	0	0
800000	1	23	2	14	2	14	1020	1792	0	0
8479899040	10	59	1	5	0	0	6	79	0	0
908040	0	192	0	59	0	0	0	37	0	0
8537100030	3	107	6	83	0	0	1	15	0	0
9024100000	0	1542	0	6034	0	6	0	175	0	0
9031100000	0	36	0	157	0	0	0	145	0	0
300000	0	22	0	4	0	0	0	0	0	19
9032810040	3476	2676	463	54	0	0	433	36	9855	512

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	3	8
8462100030	0	0	1	438	0	0	0	0	0	0
100050	0	0	0	0	0	0	3	197	0	0
210080	0	0	0	0	0	0	2	75	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	5	270	0	0	2	32	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	13	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	2	40	0	0
990030	0	0	0	0	0	0	0	0	2	57
990040	5	240	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	1	190	0	0
8463100080	0	0	0	0	1	6	0	0	2	9
200080	0	0	0	0	0	0	6	197	0	0
300080	0	0	3	72	0	0	0	0	0	0
900080	2	24	0	0	1	95	1	610	1	4
9800000002	0	0	0	0	1	31	1	13	0	0
9900000002	22	25	0	0	49	38	3	3	5	4
Month Tot	34	558	5	523	54	201	19	1324	13	82
Y-T-D Tot	382	4838	130	5163	285	1889	332	11494	169	3690
NC YTD Tot	5	584	25	499	2	65	24	1659	4	155
C&F Month	95	1942	46	1266	98	272	97	2068	123	352
C&F Y-T-D	1527	12298	780	10366	1166	6466	943	20985	520	5348
C&F NC YTD*	21	2979	67	1953	6	1247	47	7040	6	277

Other Manufacturing Technology

1000000000	0	1587	0	349	0	636	0	604	0	614
2000000000	0	140	0	414	0	99	0	84	0	209
2710003070	0	15	0	0	0	3	0	78	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	266	0	0	0	0	0	153	0	4
8456100000	0	0	0	0	0	0	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	3	697	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	584	1	1643	0	0	0	0	0	0
300000	0	0	0	0	0	0	9	161	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	29	0	0	0	0	0	0
510090	1	8	0	0	0	0	0	0	6	148
590000	1	10	1	16	0	0	0	0	7	115
800000	3	8	6	94	0	0	4	4	0	0
8479899040	1	7	0	0	25	232	1	29	0	0
908040	0	195	0	0	0	75	0	33	0	0
8537100030	12	171	1	9	0	0	0	0	0	0
9024100000	0	24	0	237	0	6	0	59	0	16
9031100000	0	5	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	3	0	3	0	0
9032810040	688	79	4279	233	0	0	1222	61	12711	91

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	21	0	0	0	0	1	11	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	89
210080	4	175	0	0	0	0	0	0	2	1560
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	14	0	0	0	0	3	63	18	356
310080	0	0	0	0	0	0	0	0	3	186
390050	0	0	0	0	1	12	1	951	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	1	24	0	0
910060	7	303	0	0	0	0	0	0	3	157
910090	0	0	0	0	0	0	0	0	6	149
990030	1	73	0	0	0	0	0	0	0	0
990040	2	95	0	0	0	0	1	400	1	17
990060	0	0	0	0	0	0	1	255	4	104
8463100080	0	0	0	0	4	240	0	0	1	5
200080	1	5	0	0	0	0	0	0	0	0
300080	2	11	0	0	0	0	14	972	5	249
900080	7	1607	0	0	1	80	1	18	10	1342
9800000002	11	121	0	0	8	23	3	121	12	1042
9900000002	28	31	0	0	41	35	52	48	182	126
Month Tot	65	2456	0	0	55	390	78	2874	248	5383
Y-T-D Tot	1676	29693	19	695	228	1418	1185	19984	2365	45663
NC YTD Tot	49	4464	1	136	3	79	11	1239	64	10062
C&F Month	416	4319	4	2698	301	1388	448	11860	1179	9607
C&F Y-T-D	5158	67315	46	7100	994	7118	3486	54197	8511	78076
C&F NC YTD*	222	28661	1	136	15	1136	58	12413	170	21053

Other Manufacturing Technology

1000000000	0	6980	0	137	0	812	0	4262	0	9388
2000000000	0	987	0	70	0	500	0	1899	0	3089
2710003070	0	22	0	0	0	62	0	47	0	102
8428900010	3	22	0	0	0	0	4	80	7	104
8431390090	0	364	0	78	0	205	0	54	0	2127
8456100000	2	158	0	0	0	0	9	213	6	127
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	3	439	0	0	0	0	0	0	11	326
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	3	1998	0	0	0	0	2	304
300000	0	0	0	0	0	0	8	152	3	217
400000	0	0	0	0	0	0	0	0	3	36
510010	1	81	0	0	0	0	7	280	15	328
510090	2	9	0	0	0	0	0	0	9	80
590000	3	47	0	0	0	0	12	182	14	197
800000	3	42	0	0	0	0	2	30	15	786
8479899040	0	0	0	0	0	0	50	473	9	166
908040	0	128	0	0	0	0	0	118	0	31
8537100030	60	937	0	0	0	0	20	348	16	234
9024100000	0	278	0	0	0	20	0	342	0	557
9031100000	0	6	0	0	0	10	0	20	0	88
300000	0	0	0	0	0	0	0	8	0	13
9032810040	7994	603	77	4	71	98	6008	318	3741	231

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	1	157	0	0	1	157
Czechoslovakia	0	0	0	0	0	0
Denmark	23	15	6	76	29	91
East Germany	0	0	0	0	0	0
Finland	1	19	19	157	20	175
Greece	0	0	5	1267	5	1267
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	1	16	11	183	12	199
Luxembourg	0	0	0	0	0	0
Norway	12	135	6	115	18	250
Poland	0	0	0	0	0	0
Portugal	0	0	4	885	4	885
Romania	250	21	39	5	289	26
Sweden	16	296	1	7	17	302
Turkey	11	17	0	0	11	17
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1736	17534	439	11450	2175	28984
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	9	8	11	12	20	19
Dominican Rep	2	8	1	3	3	10
El Salvador	0	0	0	0	0	0
Guatemala	0	0	9	8	9	8
Haiti	1	13	0	0	1	13
Honduras	4	3	0	0	4	3
Jamaica	0	0	4	3	4	3
Panama	0	0	1	19	1	19
Trinidad	0	0	2	39	2	39
Oth N & C Am.	36	17	2	67	38	84
TOTAL	1120	12316	744	11044	1864	23360
SOUTH AMERICA						
Argentina	2	21	7	192	9	213
Bolivia	0	0	0	0	0	0
Chile	21	345	17	13	38	358
Colombia	15	147	7	120	22	267
Ecuador	5	50	1	35	6	85
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Oth South Am.	3	56	0	0	3	56
TOTAL	344	2600	162	1144	506	3744
OCEANIA						
New Zealand	11	19	0	0	11	19
Oth Oceania	0	0	0	0	0	0
TOTAL	167	567	12	798	179	1365

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	201	862	27	57	228	919
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	59	110	25	31	84	141
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	1	3	0	0	1	3
Pakistan	0	0	0	0	0	0
Philippines	120	96	3	1568	123	1664
Qatar	0	0	0	0	0	0
Saudi Arabia	31	61	0	0	31	61
Sri Lanka		0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	14	30	16	38	30	68
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	11	159	11	159
TOTAL	1448	17539	421	9508	1869	27047
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	7	388	4	164	11	552
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	1	98	1	98
Niger	0	0	0	0	0	0
Nigeria	2	158	0	0	2	158
South Africa	64	1149	8	62	72	1211
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	8	5	0	0	8	5
TOTAL	81	1701	13	323	94	2024

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - September 90

RELEASED: December 5, 1990

		TOTAL YTD UNITS	$000
8456300000	Electro-discharge machines	53	4710
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	57	9877
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	16	3657
100035	Horiz. mach. ctrs., ATC	41	11265
100045	Mach. ctrs., n.e.c.	176	19804
200010	Unit construction mach. (single station transfer), NC	2	230
200090	Unit construction mach. (single station transfer), non-NC	7	3468
300010	Multi-station transfer machines, NC	8	16543
300090	Multi-station transfer machines, non-NC	22	4138
8458110010	Horiz. lathes, multiple spindle, NC	22	5251
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	236	17947
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	51	6823
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	20	5242
190030	Horiz. engine or toolroom lathes, non-NC	89	1698
190050	Automatic bar and/or chucking mach., single spindle, non-NC	11	287
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	41	2001
190090	Horiz. lathes, n.e.c., non-NC	341	4461
911060	Vertical turret lathes, multiple spindle, NC	2	622
911080	Vertical turret lathes, n.e.c., NC	2	316
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347
915070	Vertical lathes, excl. VTL's, n.e.c., NC	34	7858
991050	Vertical turret lathes, non-NC	26	609
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	62	3887
8459100000	Way-type unit head machines	17	2338
210080	Other drilling machines, NC	82	7582
290040	Drilling machines, multiple spindle, non-NC	30	1367
290050	Drilling machines, radial, non-NC	18	152
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	78	1793
290090	Drilling machines, n.e.c., non-NC	603	4017
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856
310070	Boring-milling mach., n.e.c., NC	17	961
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799
400040	Boring machines, vertical, NC	6	2024
400050	Boring machines, vertical, non-NC	36	1180
400070	Boring machines, n.e.c., NC	9	3308
400080	Boring machines, n.e.c., non-NC	28	1423
510080	Milling machines, knee type, NC	19	1990
590030	Milling machines, knee type, non-NC	91	3427
610080	Milling machines, excl. knee type, n.e.c., NC	48	17935
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511
690070	Milling machines, bed type, non-NC	2	288
690090	Milling machines, n.e.c., non-NC	152	5690
700020	Threading or tapping machines, n.e.c., NC	26	1203
700080	Threading or tapping machines, n.e.c., non-NC	333	3934
8460110080	Flat surface grinding mach., NC	59	6674
190010	Flat surface grinding mach., recip.-table type, non-NC	49	859
190050	Flat surface grinding mach., n.e.c., non-NC	26	4711
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	76	23210
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	45	5744
290030	Grinding mach., internal cylindrical, non-NC	35	2855
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	304	11758
310080	Sharpening machines (tool & cutter grinding), NC	38	3882
390050	Sharpening machines (tool & cutter grinding), non-NC	763	12094
400060	Honing or lapping machines, NC	3	618
400080	Honing or lapping machines, non-NC	632	11602
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	7	987
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	853	13112
8461100060	Planing machines, NC	1	111
100080	Planing machines, non-NC	224	6060
200010	Shaping or slotting machines, NC	9	365
200090	Shaping or slotting machines, non-NC	27	631
300060	Broaching machines, NC	11	1223
300080	Broaching machines, non-NC	23	1347
401050	Gear hobbers	22	3209
401070	Gear shapers	26	5189
401090	Gear cutting machines, n.e.c.	78	31831
405060	Gear grinding or finishing machines	49	3672
500050	Sawing or cutting-off machines, NC	102	3543
500090	Sawing or cutting-off machines, non-NC	1112	14576
9000000001	Metal cutting machine tools, n.e.c.	987	20019
9800000001	Used or rebuilt machine tools	3808	47606
9900000001	Machine tools valued at less than $2,500	28102	17756
	Y-T-D Cutting Total	40456	453883
	NC Y-T-D Cutting Total*	1386	195665

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - September 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	21	1834
8457100015	0	0	0	0	11	1329	0	0	32	6075
100025	0	0	0	0	0	0	0	0	11	2440
100035	0	0	0	0	15	3186	0	0	10	2153
100045	0	0	0	0	27	3677	1	297	27	2836
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1860
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	13	2940
110030	5	574	0	0	50	3937	0	0	12	953
110050	0	0	0	0	28	2915	1	226	12	1868
110090	0	0	0	0	0	0	2	575	18	4667
190030	1	29	0	0	0	0	0	0	8	345
190050	0	0	0	0	0	0	0	0	6	161
190070	0	0	0	0	0	0	0	0	4	315
190090	56	218	0	0	3	36	0	0	61	1177
911060	0	0	0	0	0	0	0	0	1	559
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	2	713
915070	0	0	0	0	0	0	0	0	1	103
991050	0	0	0	0	0	0	0	0	9	174
995090	2	61	0	0	0	0	0	0	13	378
8459100000	0	0	0	0	1	181	2	151	0	0
210080	1	33	0	0	0	0	2	71	16	3005
290040	0	0	0	0	0	0	0	0	14	594
290050	0	0	0	0	0	0	0	0	15	105
290070	0	0	0	0	0	0	0	0	46	550
290090	18	80	0	0	0	0	14	119	250	1440
310010	0	0	0	0	0	0	2	759	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	4	334
400040	0	0	0	0	0	0	0	0	3	1134
400050	9	150	0	0	0	0	2	628	12	206
400070	0	0	0	0	0	0	0	0	9	3308
400080	0	0	0	0	0	0	2	297	7	410
510080	1	55	0	0	0	0	0	0	13	1381
590030	17	830	0	0	0	0	0	0	29	828
610080	2	2471	0	0	0	0	0	0	6	797
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	1	7	0	0	0	0	5	813	20	284
700020	1	17	1	23	4	99	0	0	3	306
700080	4	79	0	0	10	817	0	0	96	879
8460110080	3	2094	0	0	0	0	2	44	6	1800
190010	0	0	0	0	0	0	0	0	10	288
190050	4	861	0	0	0	0	1	131	4	1013
210080	1	255	0	0	0	0	1	196	18	8035
290010	0	0	0	0	0	0	6	431	5	288
290030	0	0	0	0	0	0	0	0	2	43
290050	0	0	0	0	0	0	38	963	60	2231
310080	3	89	0	0	0	0	0	0	3	280
390050	4	67	0	0	1	9	4	29	251	6705
400060	0	0	0	0	0	0	0	0	2	519
400080	14	116	4	51	1	8	1	6	40	794
900060	0	0	0	0	0	0	0	0	3	659
900080	17	175	2	17	2	18	3	372	196	2301
8461100060	0	0	0	0	0	0	0	0	1	111
100080	6	51	1	40	0	0	11	202	0	0
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	0	0	0	0	0	0	6	114
300060	0	0	0	0	0	0	0	0	3	796
300080	3	50	0	0	0	0	0	0	10	390
401050	0	0	0	0	0	0	0	0	1	63
401070	0	0	0	0	0	0	4	1778	11	1416
401090	2	1153	0	0	0	0	4	1839	1	487
405060	0	0	0	0	0	0	0	0	3	1020
500050	0	0	0	0	1	202	0	0	73	2849
500090	43	439	0	0	9	170	5	95	230	2656
9000000001	1	8	0	0	0	0	17	142	209	1527
9800000001	92	1482	4	16	8	287	136	1192	564	6817
9900000001	1183	748	121	79	343	315	309	57	2340	2638
Y-T-D Tot	1497	13991	133	227	514	17187	577	11448	4861	93079
NC YTD Tot*	18	7137	1	23	136	15345	13	2216	313	52427

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - September 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	1	114	0	0	0	0	0	0	1	140
100025	1	505	0	0	0	0	0	0	0	0
100035	1	617	0	0	0	0	0	0	0	0
100045	8	3824	1	202	1	223	0	0	1	447
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	1	66	0	0	0	0	0	0
110030	2	217	12	1015	0	0	0	0	0	0
110050	2	443	2	388	2	498	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	6	91	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	12	250
190090	1	7	0	0	0	0	1	7	8	46
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	14	5887	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	25	10	497
8459100000	0	0	0	0	0	0	0	0	0	0
210080	8	475	1	48	0	0	0	0	1	39
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	4	8	47	0	0	4	144
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	5	1375
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	41	1	124	1	25	0	0	1	19
610080	13	2138	3	257	1	716	0	0	1	108
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	1	341	0	0	0	0
700080	0	0	4	30	4	17	1	5	12	173
8460110080	1	787	4	132	0	0	0	0	0	0
190010	0	0	0	0	3	31	0	0	0	0
190050	1	186	0	0	0	0	1	71	6	808
210080	1	164	3	584	1	359	0	0	2	495
290010	9	2339	2	935	0	0	0	0	0	0
290030	2	73	0	0	8	1948	0	0	1	27
290050	8	573	0	0	23	805	0	0	7	444
310080	0	0	2	64	0	0	0	0	0	0
390050	51	1100	1	44	4	113	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	16	328	15	119	3	196	0	0	20	264
900060	0	0	0	0	0	0	0	0	0	0
900080	2	17	13	97	6	44	0	0	48	449
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	62	0	0	0	0	0	0	2	53
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	445	1	228	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	1	278	0	0	0	0	0	0
401090	0	0	1	600	1	547	0	0	5	2554
405060	0	0	0	0	0	0	0	0	1	920
500050	0	0	0	0	0	0	0	0	0	0
500090	3	8	11	187	8	1433	1	9	22	346
9000000001	1	15	21	499	6	127	3	13	40	1549
9800000001	40	1046	40	661	153	2032	0	0	50	984
9900000001	*14*	*11*	*838*	*377*	*439*	*759*	*86*	*42*	*1068*	*520*
Y-T-D Tot	192	15553	986	7117	696	16597	94	173	1332	13203
NC YTD Tot*	38	9285	50	3253	22	8051	0	0	48	4123

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - September 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	11	1477	0	0	0	0	7	295	1	33
8457100015	0	0	2	279	0	0	3	601	0	0
100025	0	0	2	478	1	109	0	0	0	0
100035	0	0	2	982	0	0	0	0	0	0
100045	11	515	27	2922	0	0	32	2154	0	0
200010	0	0	0	0	0	0	2	230	0	0
200090	0	0	3	415	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	18	2178	0	0
8458110010	0	0	1	90	0	0	5	515	0	0
110030	23	1646	5	343	0	0	4	293	3	160
110050	0	0	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	43	0	0	0	0	16	282	0	0
190050	1	6	0	0	0	0	2	31	0	0
190070	11	319	3	426	0	0	0	0	0	0
190090	11	130	14	73	0	0	125	2164	0	0
911060	0	0	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	17	1753	0	0
991050	0	0	0	0	0	0	4	79	0	0
995090	0	0	3	243	0	0	10	502	0	0
8459100000	0	0	4	345	0	0	2	266	0	0
210080	0	0	3	130	0	0	18	1173	0	0
290040	0	0	5	240	0	0	2	189	1	26
290050	0	0	0	0	0	0	3	47	0	0
290070	0	0	0	0	0	0	18	112	0	0
290090	21	220	29	249	3	183	125	807	1	6
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	2	207	0	0
310070	0	0	2	124	0	0	1	32	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	0	0
400040	0	0	1	690	0	0	0	0	0	0
400050	0	0	0	0	0	0	7	103	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	14	438	0	0
510080	1	278	0	0	0	0	2	191	0	0
590030	3	254	0	0	5	166	2	46	0	0
610080	0	0	5	4744	0	0	3	102	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	1	238	0	0
690090	2	31	7	638	0	0	98	2710	0	0
700020	0	0	1	23	0	0	1	22	0	0
700080	0	0	1	42	0	0	39	238	3	80
8460110080	4	267	0	0	1	22	20	1010	2	64
190010	2	6	0	0	0	0	7	113	0	0
190050	1	556	2	295	0	0	1	57	0	0
210080	14	3713	2	419	0	0	6	2042	0	0
290010	1	53	2	825	0	0	0	0	4	195
290030	2	170	0	0	0	0	3	53	0	0
290050	9	914	0	0	0	0	73	1338	9	232
310080	2	749	2	72	0	0	14	459	0	0
390050	150	1375	28	568	23	133	17	259	6	41
400060	0	0	0	0	0	0	1	99	0	0
400080	20	278	209	2831	4	146	13	204	12	187
900060	0	0	0	0	0	0	1	44	0	0
900080	105	2350	64	716	1	4	103	2136	3	24
8461100060	0	0	0	0	0	0	0	0	0	0
100080	8	928	42	1125	23	200	87	800	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	5	99	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	48	0	0	4	152	0	0
401050	5	855	2	115	0	0	0	0	0	0
401070	0	0	5	219	0	0	2	452	2	1008
401090	20	7022	19	9075	0	0	6	496	0	0
405060	2	183	22	924	0	0	2	82	0	0
500050	0	0	0	0	0	0	7	101	2	44
500090	130	1524	46	570	4	36	124	1593	157	845
9000000001	51	3763	20	818	4	800	76	1772	5	90
9800000001	227	2398	201	5196	2	14	972	7026	56	508
9900000001	2518	1214	720	485	315	460	5374	2579	162	157
Y-T-D Tot	3369	33258	1513	38945	386	2273	7516	41852	430	4240
NC YTD Tot*	101	10782	57	12169	2	131	153	11909	9	860

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - September 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	7	476	1	91
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	94	0	0	0	0	1	99	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	22	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	2	128	0	0
190090	6	69	0	0	1	170	4	25	0	0
911060	0	0	0	0	0	0	0	0	0	0
911090	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	90	0	0
991050	2	28	0	0	0	0	1	10	1	18
995090	1	50	0	0	0	25	0	0	0	0
8459100000	0	0	2	663	0	0	1	245	0	0
210080	1	38	0	0	0	0	7	468	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	2	71	0	0	8	37	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	62	0	0	0	0	2	76	0	0
610080	3	1406	0	0	1	125	3	3850	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	11	1	187	0	0	0	0	0	0
700020	0	0	0	0	0	0	3	87	0	0
700080	3	11	0	0	0	0	0	0	2	75
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	2	115	0	0
210080	3	430	0	0	3	1057	1	312	0	0
290010	0	0	0	0	6	134	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	755	3	222	4	155	30	1115	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	16	159	2	7	0	0	5	64	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	19	11	110	25	332	16	193	10	62
900060	0	0	0	0	0	0	0	0	0	0
900080	10	175	16	222	31	294	20	252	15	126
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	4	705
200010	0	0	0	0	0	0	0	0	0	0
200090	7	27	0	0	0	0	1	7	1	33
300060	8	427	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	2	1425	1	575	0	0	0	0
405060	0	0	0	0	11	328	1	10	0	0
500050	0	0	16	184	0	0	0	0	0	0
500090	0	0	12	124	1	18	40	707	2	14
9000000001	100	1654	27	1273	42	376	55	555	1	4
9800000001	42	1356	52	421	106	488	38	295	51	170
9900000001	926	466	506	366	629	387	370	313	260	303
Y-T-D Tot	1145	7460	650	5203	881	4577	611	9491	351	1658
NC YTD Tot*	16	2395	42	1454	4	1182	23	5381	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - September 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	100	0	0	0	0	9	630	1	176
8457100015	2	459	0	0	0	0	0	0	5	881
100025	0	0	0	0	0	0	0	0	1	125
100035	5	2056	0	0	0	0	5	1455	3	816
100045	16	1147	0	0	6	367	4	262	6	365
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	2	2500	0	0
300010	5	9400	0	0	0	0	1	5284	0	0
300090	0	0	0	0	0	0	2	1760	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	102	7182	0	0	0	0	9	739	7	697
110050	2	203	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	46	783	0	0	4	64	1	15	3	18
190050	2	89	0	0	0	0	0	0	0	0
190070	6	327	0	0	0	0	3	236	0	0
190090	16	135	0	0	1	3	7	28	26	173
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	5	163	0	0	0	0	0	0	4	137
995090	16	468	0	0	2	1509	1	33	3	97
8459100000	0	0	0	0	2	208	2	136	1	142
210080	4	427	0	0	0	0	4	260	15	1384
290040	0	0	0	0	0	0	0	0	4	150
290050	0	0	0	0	0	0	0	0	0	0
290070	10	702	0	0	0	0	2	174	2	255
290090	8	76	0	0	15	69	7	57	89	409
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	1	185	0	0	0	0	6	337	6	254
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	2	200	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	5	76
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	151
510080	0	0	0	0	0	0	0	0	2	84
590030	5	116	0	0	0	0	3	117	19	725
610080	0	0	0	0	5	580	1	100	0	0
690050	0	0	0	0	0	0	20	490	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	3	271	0	0	1	14	4	51	6	343
700020	5	136	0	0	0	0	0	0	6	150
700080	11	215	0	0	52	676	7	29	84	566
8460110080	0	0	0	0	0	0	2	55	14	400
190010	0	0	0	0	1	16	4	139	20	240
190050	2	393	0	0	0	0	1	226	0	0
210080	6	1754	0	0	0	0	7	1810	7	1587
290010	9	489	0	0	0	0	0	0	1	55
290030	2	69	0	0	0	0	15	472	0	0
290050	7	315	0	0	0	0	24	1148	3	547
310080	0	0	0	0	0	0	1	713	11	1457
390050	47	343	0	0	0	0	115	760	38	318
400060	0	0	0	0	0	0	0	0	0	0
400080	15	240	14	3208	1	5	73	944	93	964
900060	0	0	0	0	0	0	0	0	3	284
900080	42	1007	0	0	22	229	47	934	85	1151
8461100060	0	0	0	0	0	0	0	0	0	0
100080	3	24	0	0	1	50	9	717	24	1094
200010	0	0	0	0	0	0	7	160	1	157
200090	3	26	0	0	0	0	0	0	2	140
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	3	35
401050	1	301	8	466	0	0	3	569	0	0
401070	0	0	0	0	0	0	0	0	1	38
401090	0	0	4	2698	5	405	7	2956	0	0
405060	3	34	0	0	0	0	2	115	2	57
500050	3	163	0	0	0	0	0	0	0	0
500090	104	1381	1	34	0	0	42	745	117	1641
9000000001	52	2412	0	0	9	98	16	146	231	2378
9800000001	113	2377	0	0	37	675	249	6217	575	5947
9900000001	2796	993	0	0	596	228	1577	692	4612	4166
Y-T-D Tot	3482	37622	27	6405	766	5699	2301	34213	6146	32413
NC YTD Tot*	173	24198	0	0	12	1057	47	11174	106	10992

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

January 90 - September 90

RELEASED: December 5, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	$000
8454300010	Die casting machines	248	7500
8462100030	Headers and upsetters, including cold headers	45	15824
100050	Forging or die stamping machines, and hammers, n.e.c.	242	21149
210080	Bending, folding, straight. or flat. mach., incl presses, NC	250	24434
290030	Press brakes, non-NC	127	2834
290040	Bending rolls, non-NC	63	1400
290050	Bending, folding, straight., or flat., n.e.c., non-NC	964	23897
310080	Shearing machines, NC	66	6024
390050	Shearing machines, non-NC	262	7164
410080	Punching or notching mach., incl. comb. punch & shear, NC	129	18559
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	655	16993
910060	Hydraulic presses, NC	59	4214
910090	Hydraulic presses, non-NC	498	20710
990030	Presses, n.e.c., NC	125	10380
990040	Presses, mechanical, non-NC	84	8796
990060	Presses, n.e.c., non-NC	932	30093
8463100080	Draw benches for bars, tubes, profiles, wire or the like	166	4562
200080	Thread rolling machines	48	2146
300080	Machines for working wire	568	17372
900080	Metal forming machine tools, n.e.c.	1309	42932
9800000002	Used or rebuilt machine tools	2649	49024
9900000002	Machine tools valued at less than $2,500	10742	8207
	Y-T-D Forming Total	20231	344212
	NC Y-T-D Forming Total	629	63611
	Cutting and Forming Totals:		
	Y-T-D Total	60687	798095
	NC Y-T-D Total*	2015	259276

Other Manufacturing Technology		TOTAL YTD UNITS	$000
1000000000	Machine tool parts and accessories	0	536401
2000000000	Parts for working rubber or plastics - heading 8477	0	210730
2710003070	Quenching or cutting oils	0	17187
8428900010	Industrial robots for lifting, handling, loading or unload	272	5422
8431390090	Parts industrial robots, handling and loading - heading 8428	0	55111
8456100000	Laser, light or photon beam for working any material	694	34402
200000	Ultrasonic process for working any material	66	1702
8477106010	Injection molding mach., for rubber or oth. thermosetting	234	11163
106070	Injection molding mach., for thermoplastics	327	39177
200010	Extruders for rubber or other thermosetting materials	267	10614
200050	Extruders for processing thermoplastics	650	33279
300000	Blow molding machines	477	35131
400000	Vacuum-molding and other thermoforming machines	4561	11707
510010	Machines for molding or retreading pneumatic tires	797	14427
510090	Machines for molding or otherwise forming inner tubes	321	27179
590000	Machines for molding or otherwise forming n.e.c.	1008	18398
800000	Machines for working rubber or plastics n.e.c.	4223	83938
8479899040	Industrial robots, n.e.c.	4746	43635
908040	Industrial robot parts	0	23010
8537100030	Numerical controls for controlling machine tools	1573	23429
9024100000	Machines and appliances for testing metals	0	57904
9031100000	Machines for balancing mechanical parts	0	21711
300000	Profile projectors	0	5788
9032810040	Industrial process control instr., hydraulic or pneumatic	508772	35882

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	21	7	40	2	22	1	13	10	3253
8462100030	0	0	0	0	0	0	0	0	3	430
210050	1	67	0	0	2	90	1	51	22	2398
210080	21	1686	0	0	0	0	4	149	54	7776
290030	0	0	0	0	0	0	6	251	96	1687
290040	1	8	0	0	1	29	0	0	23	440
290050	10	153	1	90	0	0	6	68	252	4195
310080	3	179	0	0	0	0	0	0	15	2404
390050	7	106	0	0	15	238	0	0	76	1630
410080	1	34	0	0	0	0	3	339	24	2983
490050	16	106	2	960	16	194	54	690	145	2058
910060	1	10	0	0	0	0	1	14	7	1567
910090	5	88	1	13	4	1043	0	0	32	1562
990030	0	0	0	0	0	0	0	0	26	1915
990040	1	558	1	566	0	0	0	0	14	648
990060	10	392	1	22	0	0	35	1329	92	1446
8463100080	8	100	0	0	9	127	8	269	23	892
200080	1	86	0	0	0	0	2	155	15	321
300080	5	202	3	54	1	25	74	1063	45	1110
900080	18	523	10	390	0	0	12	455	142	2343
9800000002	10	242	0	0	12	338	10	466	553	9915
9900000002	285	155	36	28	486	434	300	187	1599	1466
Y-T-D Tot	413	4714	62	2164	548	2539	517	5496	3268	52439
NC YTD Tot	26	1908	0	0	0	0	8	501	126	16645
C&F YTD	1910	18705	195	2391	1062	19726	1094	16945	8129	145518
C&F NC YTD*	44	9046	1	23	136	15345	21	2717	439	69072

Other Manufacturing Technology

1000000000	0	10836	0	1265	0	6526	0	8322	0	119375
2000000000	0	7520	0	787	0	4446	0	5268	0	55986
2710003070	0	208	0	5	0	16	0	25	0	832
8428900010	3	62	0	0	1	15	0	0	50	1910
8431390090	0	2907	0	86	0	514	0	1976	0	12832
8456100000	1	67	0	0	8	288	3	450	23	1702
200000	1	14	0	0	1	202	0	0	7	140
8477106010	1	38	0	0	1	82	112	2244	8	446
106070	6	366	8	951	0	0	14	1732	85	12949
200010	4	102	0	0	0	0	0	0	172	5496
200050	4	727	1	41	3	405	18	1530	125	3478
300000	44	964	0	0	2	215	8	2680	17	4225
400000	16	166	0	0	6	51	15	458	42	3210
510010	7	1316	0	0	135	82	9	296	35	2696
510090	6	201	0	0	1	421	0	0	0	0
590000	10	108	5	113	43	715	2	76	57	2677
800000	59	1152	3	44	46	890	33	393	776	26931
8479899040	11	61	0	0	6	130	2	76	3199	24646
908040	0	67	0	16	0	54	0	4	0	11569
8537100030	18	188	2	32	12	172	5	141	88	1107
9024100000	0	828	0	170	0	427	0	1203	0	6752
9031100000	0	258	0	0	0	129	0	253	0	7497
300000	0	27	0	0	0	0	0	233	0	383
9032810040	17192	1195	9154	468	10421	533	265	27	18452	1469

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	37	1699	17	169	40	290	9	42	0	0
8462100030	0	0	3	1742	0	0	0	0	2	514
100050	1	166	0	0	2	105	0	0	3	777
210080	0	0	9	388	0	0	3	576	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	32	1	47	0	0	0	0	9	95
290050	7	647	31	818	11	1013	192	3306	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	19	832	3	55	0	0	0	0
410080	2	2624	19	2568	0	0	0	0	5	347
490050	56	1310	6	389	9	136	1	7	30	726
910060	1	5	0	0	0	0	0	0	0	0
910090	20	679	8	181	0	0	1	20	12	184
990030	0	0	13	1294	0	0	0	0	4	611
990040	6	651	5	1157	0	0	0	0	0	0
990060	1	60	3	21	4	83	0	0	9	191
8463100080	4	355	8	218	2	83	0	0	0	0
200080	1	20	0	0	2	51	0	0	0	0
300080	14	819	25	337	0	0	0	0	43	694
900080	10	1667	18	988	40	604	0	0	24	2627
9800000002	118	1397	81	1225	83	3343	35	1686	37	414
9900000002	81	49	210	160	185	129	0	0	108	82
Y-T-D Tot	364	12315	476	12534	381	5893	241	5636	288	7276
NC YTD Tot	3	2629	41	4251	0	0	3	576	9	958
C&F YTD	556	27867	1462	19651	1077	22489	335	5809	1620	20479
C&F NC YTD*	41	11914	91	7504	22	8051	3	576	57	5081

Other Manufacturing Technology

1000000000	0	7061	0	18705	0	2908	0	1164	0	11993
2000000000	0	5581	0	4028	0	4393	0	349	0	2657
2710003070	0	14	0	70	0	0	0	291	0	24
8428900010	18	178	37	893	0	0	0	0	14	165
8431390090	0	492	0	1110	0	615	0	100	0	378
8456100000	15	506	22	1894	0	0	0	0	64	2218
200000	0	0	3	40	0	0	0	0	3	47
8477106010	0	0	0	0	0	0	0	0	5	294
106070	0	0	3	146	0	0	1	242	3	249
200010	0	0	0	0	0	0	0	0	0	0
200050	38	1081	10	729	27	2493	1	72	13	443
300000	0	0	5	482	30	2123	0	0	3	17
400000	8	159	4	422	0	0	0	0	0	0
510010	0	0	3	97	2	106	52	66	11	483
510090	1	72	5	702	4	916	2	17	1	7
590000	1	150	51	753	41	526	0	0	30	830
800000	226	10973	52	1446	68	1340	9	148	15	931
8479899040	1	58	125	903	3	19	0	0	111	1997
908040	0	43	0	602	0	5	0	0	0	267
8537100030	1	16	208	2932	3	41	0	0	67	1015
9024100000	0	1893	0	1340	0	237	0	371	0	1631
9031100000	0	94	0	160	0	1443	0	19	0	81
300000	0	0	0	535	0	0	0	0	0	189
9032810040	5226	307	21298	2970	23474	219	279	18	28780	2037

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	86	12	681	6	27	13	171	3	48
8462100030	21	9267	1	556	0	0	0	0	0	0
100050	24	3297	30	1687	1	107	20	1263	0	0
210080	8	1304	23	1424	7	259	46	2516	6	365
290030	3	55	0	0	0	0	8	241	0	0
290040	0	0	0	0	0	0	14	314	0	0
290050	37	792	59	1873	13	164	106	3652	9	329
310080	12	1128	3	700	0	0	12	623	15	659
390050	0	0	5	88	2	36	61	1282	0	0
410080	0	0	2	816	0	0	19	1478	21	2618
490050	66	1600	6	65	12	342	61	1036	6	55
910060	2	92	3	141	0	0	14	668	0	0
910090	5	133	19	4002	0	0	243	5739	6	302
990030	4	678	18	932	9	661	1	140	0	0
990040	2	261	1	45	0	0	5	120	4	252
990060	64	3435	42	6201	0	0	417	4961	29	328
8463100080	1	36	1	102	0	0	12	272	0	0
200080	0	0	0	0	0	0	5	679	1	132
300080	19	440	11	653	3	68	80	1528	4	134
900080	69	3170	37	948	34	2611	217	3909	45	997
9800000002	63	2125	103	6712	4	69	796	8702	7	435
9900000002	1071	504	209	133	0	0	2299	2109	148	117
Y-T-D Tot	1473	28404	585	27759	91	4344	4449	41401	304	6772
NC YTD Tot	26	3201	49	4013	16	920	92	5424	42	3642
C&F YTD	4842	61662	2098	66704	477	6617	11965	83253	734	11012
C&F NC YTD*	127	13983	106	16182	18	1051	245	17333	51	4502

Other Manufacturing Technology

1000000000	0	49820	0	21564	0	4221	0	35730	0	5935
2000000000	0	7395	0	5311	0	1686	0	18686	0	3978
2710003070	0	241	0	74	0	41	0	341	0	92
8428900010	12	157	3	49	1	4	10	63	0	0
8431390090	0	1351	0	1329	0	102	0	5168	0	811
8456100000	271	13926	9	263	21	603	16	367	16	815
200000	2	25	0	0	0	0	3	60	1	13
8477106010	0	0	5	496	0	0	89	6679	0	0
106070	8	1766	3	224	0	0	79	8175	4	782
200010	0	0	2	185	0	0	41	2946	0	0
200050	44	2889	52	804	3	88	83	2152	3	242
300000	6	4202	33	3444	0	0	102	7217	0	0
400000	365	947	35	1849	3	16	3954	2842	0	0
510010	25	584	4	521	11	272	62	1115	0	0
510090	8	316	20	2871	4	16	75	547	3	15
590000	173	2499	54	1687	11	30	195	1664	7	122
800000	121	3113	113	3710	36	449	1677	11889	127	775
8479899040	83	930	60	498	8	175	66	684	19	173
908040	0	1352	0	3303	0	18	0	190	0	100
8537100030	32	560	55	726	6	80	21	856	14	156
9024100000	0	9721	0	11672	0	213	0	1234	0	322
9031100000	0	293	0	6035	0	10	0	2205	0	33
300000	0	2495	0	723	0	0	0	69	0	37
9032810040	18681	6910	23663	1211	102	5	10699	894	73809	3854

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	1	27	10	33
8462100030	0	0	1	438	0	0	0	0	0	0
100050	1	140	10	923	2	105	6	708	2	101
210080	3	151	1	31	1	30	12	556	0	0
290030	0	0	7	294	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	17	802	1	19	11	243	24	1029	12	341
310080	0	0	0	0	0	0	1	53	0	0
390050	2	62	0	0	2	286	2	28	0	0
410080	1	110	1	50	0	0	6	454	0	0
490050	8	633	3	1098	1	9	5	332	20	211
910060	0	0	3	97	1	35	0	0	2	98
910090	2	23	22	305	2	22	8	131	11	1788
990030	1	323	20	321	0	0	5	596	2	57
990040	7	300	0	0	1	120	16	749	0	0
990060	3	70	0	0	3	531	70	2440	0	0
8463100080	0	0	5	124	4	93	1	426	18	162
200080	0	0	9	216	0	0	6	197	0	0
300080	6	142	18	648	2	34	5	137	8	353
900080	13	258	1	169	2	120	21	2635	5	282
9800000002	32	1530	20	422	2	51	56	934	10	225
9900000002	285	291	8	7	251	210	87	61	69	39
Y-T-D Tot	382	4838	130	5163	285	1889	332	11494	169	3690
NC YTD Tot	5	584	25	499	2	65	24	1659	4	155
C&F YTD	1527	12298	780	10366	1166	6466	943	20985	520	5348
C&F NC YTD*	21	2979	67	1953	6	1247	47	7040	6	277

Other Manufacturing Technology

1000000000	0	9900	0	[illegible]	0	4868	0	8265	0	3501
2000000000	0	1857	0	650	0	1384	0	2809	0	2135
2710003070	0	317	0	29	0	22	0	866	0	93
8428900010	18	77	0	0	2	330	0	0	0	0
8431390090	0	1449	0	21	0	174	0	560	0	36
8456100000	4	99	10	221	9	362	31	3595	0	0
200000	0	0	9	237	0	0	0	0	0	0
8477106010	6	450	0	0	0	0	0	0	0	0
106070	2	156	3	697	4	170	2	608	0	0
200010	0	0	0	0	0	0	6	836	0	0
200050	5	700	1	1643	0	0	10	376	1	1569
300000	0	0	10	977	7	571	37	965	39	665
400000	1	10	1	9	9	14	4	29	0	0
510010	3	58	28	784	2	3	2	34	0	0
510090	1	8	0	0	50	45	20	488	6	148
590000	4	56	13	152	40	450	20	798	7	115
800000	63	1127	10	610	32	370	32	470	8	288
8479899040	56	380	13	676	193	1868	7	209	0	0
908040	0	306	0	157	0	346	0	320	0	0
8537100030	42	592	9	90	15	210	8	135	11	111
9024100000	0	767	0	1485	0	867	0	1237	0	36
9031100000	0	312	0	93	0	54	0	267	0	17
300000	0	120	0	21	0	66	0	414	0	0
9032810040	18381	1275	12180	667	942	121	8526	[illegible]	77454	431

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	19	270	0	0	0	0	6	61	43	546
8462100030	0	0	0	0	0	0	13	1818	1	1060
100050	77	6867	0	0	2	80	11	695	24	1522
210080	18	725	0	0	1	28	3	402	30	6069
290030	0	0	0	0	0	0	0	0	7	306
290040	0	0	0	0	2	70	0	0	11	365
290050	16	283	0	0	1	35	58	1772	88	2261
310080	2	93	0	0	0	0	0	0	3	186
390050	31	800	0	0	1	12	8	1055	24	521
410080	9	2101	0	0	0	0	7	798	9	1241
490050	47	2242	2	132	0	0	15	265	68	2394
910060	16	1266	0	0	0	0	1	39	7	181
910090	26	567	11	419	3	46	9	260	48	3203
990030	4	279	1	136	2	50	0	0	15	2384
990040	6	1875	0	0	0	0	3	625	12	870
990060	53	1813	0	0	5	127	28	3115	63	3526
8463100080	24	622	0	0	5	250	19	211	14	219
200080	2	109	0	0	0	0	1	48	3	132
300080	41	933	0	0	5	110	93	4519	63	3370
900080	271	7398	0	0	4	151	102	2123	214	8564
9800000002	112	924	0	0	13	351	76	1595	416	5921
9900000002	902	526	5	7	184	109	732	583	1202	822
Y-T-D Tot	676	29693	19	695	228	1418	1185	19984	2365	45663
NC YTD Tot	49	4464	1	136	3	79	11	1239	64	10062
C&F YTD	5158	67315	46	7100	994	7118	3486	54197	8511	78076
C&F NC YTD*	222	28661	1	136	15	1136	58	12413	170	21053

Other Manufacturing Technology

1000000000	0	59499	0	1234	0	7325	0	51759	0	80269
2000000000	0	10693	0	644	0	3661	0	16236	0	39790
2710003070	0	66	0	0	0	82	0	212	0	13225
8428900010	27	335	0	0	0	0	26	586	48	599
8431390090	0	2574	0	517	0	540	0	556	0	18914
8456100000	36	1454	1	17	0	0	38	3162	96	2395
200000	16	375	0	0	0	0	6	189	14	359
8477106010	2	199	0	0	2	65	1	80	2	90
106070	23	2085	19	3059	2	171	20	2123	38	2526
200010	4	63	0	0	2	53	2	17	34	916
200050	26	872	36	4230	0	0	60	1236	[illegible]	5477
300000	11	1962	0	0	1	24	36	632	86	3767
400000	12	178	0	0	2	63	1	1069	83	215
510010	21	764	0	0	24	510	23	612	338	4031
510090	12	11	3	84	0	0	6	117	93	20176
590000	75	1083	1	15	0	0	71	2012	97	1768
800000	122	4466	0	0	100	58	152	1942	343	10425
8479899040	74	719	1	46	1	6	543	7773	164	1608
908040	0	1457	0	0	0	44	0	2110	0	680
8537100030	591	8779	0	0	0	0	171	2623	194	2866
9024100000	0	5605	0	252	0	171	0	4804	0	4665
9031100000	0	272	0	0	0	250	0	594	0	1342
300000	0	53	0	0	0	0	0	214	0	210
9032810040	56286	4562	381	29	4767	547	33970	2008	40390	3081

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	2	362	0	0	2	362
Czechoslovakia	9	279	0	0	9	279
Denmark	62	1077	29	186	91	1263
East Germany	0	0	2	359	2	359
Finland	178	119	56	1065	234	1185
Greece	326	790	51	4764	377	5554
Hungary	9	294	10	477	19	771
Iceland	0	0	0	0	0	0
Ireland	43	1015	64	524	107	1539
Luxembourg	1	5	5	5	6	9
Norway	86	672	18	176	104	848
Poland	15	22	12	1425	27	1448
Portugal	17	1225	75	2540	92	3766
Romania	250	21	39	5	289	26
Sweden	24	3129	117	2023	358	5153
Turkey	7	298	27	266	102	564
Yugoslavia	5	1306	7	284	12	1591
Oth Europe	1	53	4	3	5	56
TOTAL	12056	140662	5489	102813	17545	243474
NORTH AND CENTRAL AMERICA						
Bahamas	1	15	0	0	1	15
Barbados	1	10	9	146	10	156
Belize	3	12	4	3	7	15
Bermuda	28	18	0	0	28	18
Costa Rica	257	757	39	144	296	900
Dominican Rep	45	265	181	2267	226	2533
El Salvador	40	209	11	155	51	363
Guatemala	13	32	19	79	32	111
Haiti	4	21	7	59	11	80
Honduras	121	452	30	393	151	845
Jamaica	24	85	36	558	60	642
Panama	66	144	10	242	76	386
Trinidad	18	36	7	183	25	219
Oth N & C Am.	56	184	76	258	132	442
TOTAL	13054	137170	8146	98327	21200	235497
SOUTH AMERICA						
Argentina	29	686	26	484	55	1170
Bolivia	1	6	0	0	1	6
Chile	192	3225	224	1934	416	5159
Colombia	152	767	131	1629	283	2396
Ecuador	71	444	14	125	85	569
Paraguay	0	0	0	0	0	0
Peru	116	274	39	390	155	665
Uruguay	0	0	0	0	0	0
Oth South Am.	5	109	0	0	5	109
TOTAL	1909	22658	1179	11477	3088	34135
OCEANIA						
New Zealand	49	310	50	1088	99	1398
Oth Oceania	54	26	2	67	56	93
TOTAL	1600	14327	465	5868	2065	20195

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	2111	4133	312	1816	2423	5949
Iran	0	0	22	47	22	47
Iraq	7	537	60	5896	67	6433
Israel	224	2698	80	1765	304	4463
Jordan	1	3	2	14	3	18
Kuwait	4	61	8	293	12	354
Laos	0	0	0	0	0	0
Lebanon	0	0	20	17	20	17
Macao	0	0	0	0	0	0
Oman	7	19	0	0	7	19
Pakistan	25	467	0	0	25	467
Philippines	424	939	200	3089	624	4028
Qatar	0	0	0	0	0	0
Saudi Arabia	203	454	88	3276	291	3729
Sri Lanka	2	52	0	0	2	52
Syria	1	5	1	6	2	11
United Arab Emr	53	151	42	166	95	317
Vietnam	0	0	0	0	0	0
Oth Asia	3	24	12	173	15	197
TOTAL	11422	134951	4865	120930	16287	255881
AFRICA						
Algeria	0	0	3	3184	3	3184
Botswana	0	0	0	0	0	0
Egypt	53	731	41	908	94	1639
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	1	98	1	98
Niger	0	0	0	0	0	0
Nigeria	102	358	1	4	103	362
South Africa	239	2757	39	555	278	3313
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	1	6	2	223
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	7	14	1	42	8	56
Oth Africa	13	39	0	0	13	39
TOTAL	415	4116	87	4797	502	8913

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - September 90

RELEASED: December 5, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	652	43717	45	3402
301050	Electro-discharge machines, n.e.c., NC	273	16279	19	1834
301070	Electro-discharge machines, n.e.c., non-NC	283	6999	20	783
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1605	127356	90	8173
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	103	20263	12	1800
100035	Horiz. mach. ctrs., ATC	487	110587	35	9140
100045	Mach. ctrs., n.e.c.	188	58178	10	8479
200010	Unit construction mach. (single station transfer), NC	16	1822	2	375
200090	Unit construction mach. (single station transfer), non-NC	2	517	0	0
300010	Multi-station transfer machines, NC	43	31859	8	11143
300090	Multi-station transfer machines, non-NC	72	31126	3	3306
8458110010	Horiz. lathes, multiple spindle, NC	227	39912	21	3989
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1752	123971	124	9295
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	442	62694	45	6084
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	44	13011	4	743
190030	Horiz. engine or toolroom lathes, non-NC	3055	32845	217	2418
190050	Automatic bar and/or chucking mach., single spindle, non-NC	668	12627	37	509
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	102	8243	7	567
190090	Horiz. lathes, n.e.c., non-NC	1333	12669	134	1323
911060	Vertical turret lathes, multiple spindle, NC	21	3751	0	0
911080	Vertical turret lathes, n.e.c., NC	44	8350	1	477
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	76	7482	3	213
991050	Vertical turret lathes, non-NC	72	3944	3	174
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	880	18038	102	2295
8459100000	Way-type unit head machines	5	1718	1	109
210080	Other drilling machines, NC	250	16861	29	1604
290040	Drilling machines, multiple spindle, non-NC	60	1771	3	113
290050	Drilling machines, radial, non-NC	346	2546	9	95
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	69	729	0	0
290090	Drilling machines, n.e.c., non-NC	386	12659	8	455
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	767	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	68	10293	11	1796
310070	Boring-milling mach., n.e.c., NC	30	2256	3	159
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	27	2000	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	92	5889	7	978
400040	Boring machines, vertical, NC	1	59	1	59
400050	Boring machines, vertical, non-NC	41	1537	4	62
400070	Boring machines, n.e.c., NC	27	3282	0	0
400080	Boring machines, n.e.c., non-NC	170	5316	26	440
510080	Milling machines, knee type, NC	446	7659	29	899
590030	Milling machines, knee type, non-NC	2579	18658	199	1586
610080	Milling machines, excl. knee type, n.e.c., NC	424	18771	25	2648
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	0	0
690070	Milling machines, bed type, non-NC	48	3238	7	1131
690090	Milling machines, n.e.c., non-NC	625	16809	103	1120
700020	Threading or tapping machines, n.e.c., NC	127	6603	4	235
700080	Threading or tapping machines, n.e.c., non-NC	145	4374	11	481
8460110080	Flat surface grinding mach., NC	110	9924	6	724
190010	Flat surface grinding mach., recip.-table type, non-NC	852	10391	73	509
190050	Flat surface grinding mach., n.e.c., non-NC	1518	15446	148	2127
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	398	69335	50	7909
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	359	13452	33	1728
290030	Grinding mach., internal cylindrical, non-NC	177	10608	24	2246
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	879	36403	39	2708
310080	Sharpening machines (tool & cutter grinding), NC	189	4954	22	319
390050	Sharpening machines (tool & cutter grinding), non-NC	626	7779	52	1109
400060	Honing or lapping machines, NC	32	4164	3	242
400080	Honing or lapping machines, non-NC	187	7564	8	499
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	43	3436	9	1821
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1172	33284	149	3580
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	0	0
200010	Shaping or slotting machines, NC	83	2974	0	0
200090	Shaping or slotting machines, non-NC	152	6186	7	1643
300060	Broaching machines, NC	8	8396	4	1054
300080	Broaching machines, non-NC	68	3563	2	539
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	95	8064	2	775
401040	Gear shapers	23	7025	3	273
401060	Gear cutting machines, n.e.c.	155	570	48	9
405050	Gear grinding or finishing for bevel gears	60	1679	1	316
405070	Gear grinding or finishing machines, n.e.c.	76	19888	15	3252
500050	Sawing or cutting-off machines, NC	84	5465	6	521
500090	Sawing or cutting-off machines, non-NC	1579	26857	102	1773
9000000001	Metal cutting machine tools, n.e.c.	262	12131	13	2432
9800000001	Used or rebuilt machine tools	4868	25136	374	2859
9900000001	Machine tools valued at less than $2,500	666927	69147	76066	6170
	Cutting Total			78681	137632
Please see notes on last page	Y-T-D Cutting Total	699434	1364256		
of the metal forming section.	NC Y-T-D Cutting Total	8316	848108		

U.S. IMPORTS - Metal Cutting Machine Tools - September 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	5	1543
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	185	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	17	151	0	0	0	0	0	0
190050	0	0	2	24	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	4
190090	0	0	65	386	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	2	12
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	7	0	0	0	0	1	27
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	1	7	0	0	1	37
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	4	62
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	7	124	5	13	10	83
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	396
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	2	69	1	107	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	3	28
190050	0	0	0	0	3	10	0	0	1	13
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	6	39	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	4	10	2	81	1	140
310080	0	0	0	0	1	2	0	0	0	0
390050	0	0	0	0	7	22	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	8
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	3	68
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	4	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	1	3	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	29	756	1	4	0	0
9000000001	0	0	0	0	0	0	0	0	2	20
9800000001	2	393	1	20	11	238	1	6	1	2
9900000001	0	0	0	0	25	30	70	16	1111	188
Month Tot	2	393	86	587	98	1314	82	412	1148	2631
Y-T-D Tot	45	1626	1762	10082	1322	16528	1506	20416	26699	44124
NC YTD Tot	2	110	5	537	33	3262	77	8853	110	14821

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - September 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	21	1803	0	0	0	0	0	0	0	0
301050	13	1384	0	0	0	0	0	0	0	0
301070	1	59	0	0	0	0	0	0	1	70
8457100015	60	6060	0	0	8	565	0	0	0	0
100025	6	1336	0	0	0	0	0	0	0	0
100035	34	9016	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	2	375	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	7	10898	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	17	2975	0	0	0	0	0	0	0	0
110030	100	7845	1	71	0	0	0	0	0	0
110050	40	5651	0	0	0	0	0	0	0	0
110090	3	452	0	0	0	0	0	0	0	0
190030	2	66	25	278	17	207	2	121	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	1	515	0	0	0	0	0	0	0	0
190090	3	252	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	1	477	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	186	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	4	826	8	323	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	28	1428	0	0	0	0	0	0	0	0
290040	1	106	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	5	405	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	1	119	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	1	247	0	0	0	0	0	0	0	0
590030	1	394	0	0	0	0	15	126	0	0
610080	4	1960	0	0	2	82	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	46	0	0	0	0	0	0	0	0
690090	1	56	0	0	0	0	0	0	0	0
700020	4	235	0	0	0	0	0	0	0	0
700080	1	133	0	0	0	0	0	0	0	0
8460110080	5	602	0	0	0	0	0	0	0	0
190010	0	0	0	0	25	309	0	0	0	0
190050	9	1031	0	0	0	0	0	0	0	0
210080	28	6491	0	0	0	0	0	0	0	0
290010	5	459	0	0	0	0	0	0	1	17
290030	4	1060	0	0	0	0	0	0	2	800
290050	14	1794	0	0	0	0	2	229	1	3
310080	0	0	0	0	0	0	0	0	0	0
390050	27	948	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	14	0	0	0	0	0	0	0	0
900060	2	280	0	0	0	0	0	0	0	0
900080	47	2071	0	0	0	0	1	13	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	6	1639	0	0	0	0	0	0	0	0
300060	4	1054	0	0	0	0	0	0	0	0
300080	2	539	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	6	521	0	0	0	0	0	0	0	0
500090	11	310	0	0	0	0	0	0	0	0
9000000001	5	1830	0	0	0	0	0	0	0	0
9800000001	291	740	0	0	0	0	5	81	0	0
9900000001	2772	471	735	65	72	12	25	6	114	28
Month Tot	3602	76786	771	1112	124	1174	50	575	120	927
Y-T-D Tot	45335	662223	9396	14801	861	14838	1689	20695	1949	12164
NC YTD Tot	4851	560323	117	7894	142	7475	90	2498	14	4036

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - September 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	5	890	0	0	0	0	0	0	18	709
301050	4	407	0	0	2	43	0	0	0	0
301070	4	486	2	43	11	26	0	0	1	99
8457100015	0	0	6	388	15	963	1	198	0	0
100025	0	0	6	464	0	0	0	0	0	0
100035	0	0	0	0	1	125	0	0	0	0
100045	0	0	0	0	0	0	5	6936	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	1	245	0	0
300090	1	89	0	0	0	0	2	3217	0	0
8458110010	0	0	0	0	0	0	4	1013	0	0
110030	0	0	3	188	7	472	1	110	12	609
110050	0	0	2	103	1	145	0	0	0	0
110090	0	0	0	0	0	0	1	291	0	0
190030	0	0	41	315	23	382	0	0	90	899
190050	2	243	14	94	1	6	0	0	18	143
190070	0	0	5	48	0	0	0	0	0	0
190090	1	60	29	151	9	296	0	0	27	178
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	27
991050	1	162	0	0	0	0	0	0	0	0
995090	0	0	2	88	0	0	10	570	78	488
8459100000	0	0	0	0	1	109	0	0	0	0
210080	0	0	0	0	0	0	1	176	0	0
290040	0	0	0	0	0	0	2	7	0	0
290050	0	0	0	0	0	0	0	0	7	60
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	5	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	1	299	5	1364	5	134
310070	0	0	0	0	1	6	1	33	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	693	6	285	0	0
400040	0	0	0	0	0	0	0	0	1	59
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	50	0	0	1	103	2	67	0	0
510080	0	0	5	209	7	307	0	0	16	136
590030	2	50	120	649	0	0	9	161	52	206
610080	0	0	6	88	0	0	0	0	12	121
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	5	152	0	0	1	933	0	0
690090	1	27	58	244	2	157	4	347	34	114
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	4	1	260	8	83	0	0
8460110080	1	123	0	0	0	0	0	0	0	0
190010	0	0	22	84	1	4	21	81	1	3
190050	3	234	128	786	0	0	1	2	3	51
210080	3	176	0	0	6	780	12	435	1	26
290010	3	242	3	81	0	0	15	890	0	0
290030	2	276	0	0	0	0	0	0	16	110
290050	0	0	5	31	3	23	1	107	6	289
310080	0	0	3	17	0	0	12	252	6	48
390050	1	9	8	48	4	22	2	32	3	28
400060	0	0	0	0	2	69	1	173	0	0
400080	0	0	0	0	1	11	4	465	0	0
900060	0	0	0	0	0	0	7	1541	0	0
900080	5	84	0	0	17	101	47	1008	28	229
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	1	20	1	756	0	0
401040	0	0	0	0	0	0	3	273	0	0
401060	47	6	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	1	316	0	0
405070	4	2447	0	0	0	0	1	18	10	787
500050	0	0	0	0	0	0	0	0	0	0
500090	1	47	9	103	5	34	23	269	23	250
9000000001	0	0	0	0	0	0	5	573	1	10
9800000001	3	88	1	18	35	386	12	779	11	108
9900000001	121	25	65736	4300	47	41	230	162	5008	827
Month Tot	217	6221	66220	8694	207	5884	464	24174	5490	6747
Y-T-D Tot	1803	68639	516654	95488	4528	74950	10787	248892	75098	58790
NC YTD Tot	312	25379	693	21545	589	48382	804	124701	477	18291

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 90

RELEASED: December 5, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	312	18726	21	1139
8462100030	Headers and upsetters, including cold headers	128	12848	20	3331
100050	Forging or die stamping machines, and hammers, n.e.c.	655	37277	124	5597
210080	Bending, folding, straight. or flat. mach., incl presses, NC	440	28531	45	3216
290030	Press brakes, non-NC	238	6637	13	404
290040	Bending rolls, non-NC	76	2025	1	11
290050	Bending, folding, straight., or flat., n.e.c., non-NC	973	32128	102	2201
310080	Shearing machines, NC	50	3883	1	187
390050	Shearing machines, non-NC	467	13763	39	2217
410080	Punching or notching mach., incl. comb. punch & shear, NC	271	27823	26	1510
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	530	9804	37	892
910060	Hydraulic presses, NC	17	18521	2	5492
910090	Hydraulic presses, non-NC	2280	14633	351	1785
990030	Presses, n.e.c., NC	49	4438	3	706
990035	Mechanical transfer presses, non-NC	12	14836	0	0
990045	Mechanical presses, n.e.c., non-NC	75	3900	5	198
990060	Presses, n.e.c., non-NC	595	25371	55	2219
8463100080	Draw benches for bars, tubes, profiles, wire or the like	79	4808	40	2653
200080	Thread rolling machines	63	3445	2	170
300080	Machines for working wire	1086	52404	73	4119
900080	Metal forming machine tools, n.e.c.	521	22665	68	2741
9800000002	Used or rebuilt machine tools	1009	14733	108	1714
9900000002	Machine tools valued at less than $2,500	13353	4487	1936	406
	Forming Total			3072	42908
	Y-T-D Forming Total	23279	377687		
	NC Y-T-D Forming Total	827	83196		
	Cutting and Forming Totals:				
	Monthly Total			81753	180539
	Y-T-D Total	722713	1741943		
	NC Y-T-D Total	9143	931305		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	416612	0	42299
2000000000	Parts for working rubber or plastics - heading 8477	0	245490	0	21777
2710003070	Quenching or cutting oils	0	290	0	9
8428900010	Industrial robots for lifting, handling, loading or unload	1552	27385	175	1202
8431390080	Parts industrial robots, handling and loading - heading 8428	0	72121	0	6371
8456101010	Laser, light or photon beam for working metal, NC	139	25690	16	2622
101020	Laser, light or photon beam for working metal, non-NC	67	3641	7	75
105000	Laser, light or photon beam for other materials	105	7483	1	29
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	12	150	5	32
205000	Ultrasonic processes for working other materials	56	195	0	0
8477103000	Injection molding mach., for manufacturing shoes	111	2922	10	833
106010	Injection molding mach., for rubber or oth. thermosetting	602	50872	56	5139
106050	Injection molding mach., for thermoplastics	1955	183270	211	14559
200010	Extruders for rubber or other thermosetting materials	180	13293	16	2576
200050	Extruders for processing thermoplastics	808	51147	74	7194
300000	Blow molding machines	279	37601	25	8388
400000	Vacuum-molding and other thermoforming machines	149	5529	3	40
510010	Machines for molding or retreading pneumatic tires	442	37983	32	2929
510090	Machines for molding or otherwise forming inner tubes	259	11836	6	1521
590000	Machines for molding or otherwise forming n.e.c.	833	42010	26	637
800000	Machines for working rubber or plastics n.e.c.	8401	84942	452	8387
8479899040	Industrial robots, n.e.c.	13273	54189	1375	5651
908040	Industrial robot parts	0	25744	0	1954
8537100030	Numerical controls for controlling machine tools	9329	35118	488	3300
9024100000	Machines and appliances for testing metals	0	9486	0	869
9031100000	Machines for balancing mechanical parts	0	10049	0	898
300000	Profile projectors	0	5116	0	709
9032810020	Industrial process control instr., hydraulic	121840	1753	12089	175
810060	Industrial process control instr., pneumatic	206689	3583	8949	244

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	9	142	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	1	187
100050	0	0	0	0	74	1444	0	0	2	217
210080	0	0	0	0	6	980	0	0	3	297
290030	0	0	0	0	10	342	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	13	175	5	14	2	10
310080	0	0	0	0	0	0	0	0	0	0
390050	4	82	0	0	9	385	0	0	0	0
410080	0	0	0	0	0	0	1	119	0	0
490050	0	0	0	0	1	20	0	0	1	10
910060	0	0	0	0	0	0	0	0	0	0
910090	2	2	0	0	0	0	0	0	1	15
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	29	1164	0	0	8	63
8463100080	0	0	0	0	1	44	0	0	0	0
200080	0	0	0	0	1	13	0	0	0	0
300080	4	195	0	0	2	7	0	0	1	16
900080	0	0	0	0	5	217	7	157	0	0
9800000002	4	47	0	0	29	471	0	0	0	0
9900000002	0	0	2	2	4	5	0	0	16	13
Month Tot	14	327	2	2	193	5409	13	289	35	828
Y-T-D Tot	450	17872	13	202	1500	48035	308	3107	1581	31941
NC YTD Tot	38	3210	0	0	46	4991	3	139	59	1896
C&F Month	16	720	88	589	291	6723	95	701	1183	3459
C&F Y-T-D	495	19498	1775	10285	2822	64563	1814	23523	28280	76064
C&F NC YTD	40	3320	5	537	79	8253	80	8992	169	16717

Other Manufacturing Technology

1000000000	0	322	0	5	0	9894	0	781	0	627
2000000000	0	46	0	0	0	3814	0	2731	0	1973
2710003070	0	0	0	0	0	2	0	0	0	0
8428900010	0	0	0	0	3	48	0	0	0	0
8431390080	0	0	0	1	0	1149	0	86	0	41
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	502
106010	0	0	0	0	0	0	9	1373	2	205
106050	0	0	0	0	43	3524	0	0	1	60
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	4	313	0	0	4	3036
300000	0	0	0	0	1	40	2	3453	0	0
400000	0	0	0	0	2	32	0	0	0	0
510010	0	0	0	0	5	115	0	0	16	577
510090	0	0	0	0	2	266	0	0	1	6
590000	0	0	0	0	2	388	0	0	0	0
800000	153	102	0	0	44	624	3	167	10	383
8479899040	0	0	0	0	5	103	50	355	0	0
908040	0	0	0	0	0	22	0	3	0	0
8537100030	0	0	0	0	6	20	0	0	0	0
9024100000	0	0	0	0	0	64	0	0	0	0
9031100000	0	7	0	0	0	5	0	0	0	5
300000	0	0	0	0	0	3	0	0	0	0
9032810020	0	0	0	0	1	7	0	0	0	0
810060	0	0	0	0	60	4	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	762	0	0	0	0	0	0	0	0
8462100030	19	3143	0	0	0	0	0	0	0	0
100050	15	2654	0	0	0	0	0	0	5	14
210080	14	655	0	0	0	0	0	0	0	0
290030	0	0	0	0	3	62	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	7	1128	0	0	0	0	0	0	9	129
310080	1	187	0	0	0	0	0	0	0	0
390050	12	1616	0	0	0	0	0	0	2	34
410080	4	549	0	0	0	0	0	0	0	0
490050	6	587	0	0	0	0	17	169	0	0
910060	1	214	0	0	0	0	0	0	1	5278
910090	4	558	0	0	0	0	0	0	5	10
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	4	120	0	0	0	0	0	0	0	0
990060	10	252	0	0	0	0	0	0	0	0
8463100080	21	2238	0	0	0	0	0	0	0	0
200080	1	157	0	0	0	0	0	0	0	0
300080	47	2661	0	0	0	0	0	0	0	0
900080	12	498	0	0	0	0	1	3	1	66
9800000002	3	544	0	0	0	0	0	0	0	0
9900000002	30	34	2	1	0	0	10	20	11	21
Month Tot	220	18557	2	1	3	62	28	192	34	5553
Y-T-D Tot	3596	145320	21	516	82	133	408	3271	510	23391
NC YTD Tot	368	29614	0	0	1	5	0	0	8	18612
C&F Month	3822	95343	773	1113	127	1237	76	767	154	6480
C&F Y-T-D	48931	807543	9417	15317	943	14970	2097	23965	2459	35556
C&F NC YTD	5219	589938	117	7894	143	7480	90	2498	22	22649

Other Manufacturing Technology

1000000000	0	8210	0	39	0	558	0	252	0	1438
2000000000	0	1944	0	148	0	64	0	5	0	32
2710003070	0	2	0	0	0	0	0	0	0	0
8428900010	159	761	0	0	0	0	0	0	8	136
8431390080	0	1272	0	2	0	13	0	0	0	35
8456101010	9	2272	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	5	32	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	36	3009	1	64	0	0	0	0	0	0
106050	82	7363	4	169	0	0	0	0	0	0
200010	1	342	0	0	0	0	0	0	0	0
200050	3	145	0	0	0	0	0	0	0	0
300000	4	2784	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	9	1788	0	0	0	0	0	0	0	0
510090	1	1087	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	0	0
800000	41	1659	0	0	2	6	1	40	1	76
8479899040	1273	4392	0	0	0	0	0	0	10	495
908040	0	834	0	0	0	0	0	0	0	96
8537100030	415	3258	0	0	0	0	0	0	0	0
9024100000	0	231	0	0	0	0	0	0	0	0
9031100000	0	749	0	0	0	0	0	0	0	0
300000	0	408	0	0	0	0	0	0	0	0
9032810020	20	3	0	0	0	0	0	0	0	0
810060	22	6	6000	19	0	0	0	0	1036	159

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	3	236	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	211	0	0	5	47	11	531	10	477
210080	0	0	0	0	0	0	19	479	3	806
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	11	0	0	0	0	0	0
290050	0	0	19	189	1	5	10	189	36	361
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	20	6	33	4	46
410080	1	177	0	0	0	0	19	664	1	2
490050	4	26	5	18	0	0	1	51	2	10
910060	0	0	0	0	0	0	0	0	0	0
910090	3	1	193	265	6	773	7	147	130	13
990030	0	0	0	0	0	0	3	706	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	1	78	0	0	0	0	0	0	0	0
990060	2	12	0	0	0	0	5	720	1	8
8463100080	0	0	0	0	0	0	18	371	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	11	812	0	0	3	135	3	284	2	8
900080	15	522	1	4	9	58	8	759	9	456
9800000002	1	9	0	0	6	281	56	323	9	39
9900000002	41	23	461	167	0	0	311	20	1048	100
Month Tot	81	1872	680	654	32	1320	480	5514	1255	2326
Y-T-D Tot	1351	18152	5804	7836	732	11166	2017	54287	4906	12459
NC YTD Tot	22	3623	6	920	7	185	229	15721	40	4280
C&F Month	298	8093	66900	9348	239	7204	944	29689	6745	9073
C&F Y-T-D	3154	86791	522458	103323	5260	86116	12804	303179	80004	71249
C&F NC YTD	334	29002	699	22466	596	48567	1033	140421	517	22572

Other Manufacturing Technology

1000000000	0	2963	0	1104	0	3237	0	10819	0	2030
2000000000	0	855	0	516	0	981	0	7289	0	1380
2710003070	0	0	0	0	0	0	0	5	0	0
8428900010	0	0	0	0	4	250	0	0	1	8
8431300080	0	1012	0	402	0	585	0	838	0	935
8456101010	3	165	0	0	0	0	4	185	0	0
101020	0	0	0	0	3	8	3	56	1	11
105000	0	0	0	0	1	29	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	1	319	0	0	8	12	0	0	0	0
106010	1	137	2	91	2	5	0	0	3	254
106050	0	0	9	376	8	51	63	2370	21	646
200010	1	11	2	20	0	0	10	2154	2	48
200050	0	0	1	55	1	438	53	2906	8	300
300000	0	0	12	433	0	0	6	1677	0	0
400000	0	0	1	8	0	0	0	0	0	0
510010	0	0	0	0	1	349	1	99	0	0
510090	0	0	1	12	0	0	1	150	0	0
590000	0	0	0	0	1	12	19	184	4	53
800000	2	535	27	246	2	43	117	3979	49	528
8479899040	0	0	0	0	2	77	2	98	33	131
908040	0	136	0	0	0	335	0	482	0	46
8537100030	7	4	0	0	0	0	25	16	35	2
9024100000	0	46	0	0	0	113	0	353	0	63
9031100000	0	0	0	0	0	54	0	45	0	33
300000	0	3	0	0	0	197	0	4	0	94
9032810020	422	18	0	0	0	0	11	2	11635	144
810060	1	2	1650	24	21	10	42	4	117	17

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	134	738	1	8	135	746
Bulgaria	0	0	0	0	0	0
Czechoslovakia	9	110	0	0	9	110
Denmark	37	201	2	68	39	269
East Germany	425	339	0	0	425	339
Finland	0	0	2	21	2	21
Hungary	3	73	0	0	3	73
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	130	1098	1	3	131	1101
Norway	0	0	0	0	0	0
Poland	24	372	0	0	24	372
Portugal	0	0	0	0	0	0
Romania	0	0	0	0	0	0
USSR	2	17	0	0	2	17
Yugoslavia	49	519	11	797	60	1316
Oth Europe	1	3	0	0	1	3
TOTAL	3104	44688	734	16792	3838	61481
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	6	49	46	100	52	149
Oth N & C Am.	0	0	0	0	0	0
TOTAL	104	1362	239	5509	343	6872
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	1	2	1	2
Oth South Am.	0	0	0	0	0	0
TOTAL	86	587	3	4	89	591
OCEANIA						
Australia	3	59	10	654	13	712
New Zealand	0	0	1	305	1	305
Oth Oceania	0	0	0	0	0	0
TOTAL	3	59	11	959	14	1018

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	4600	2194	1111	74	5711	2267
Hong Kong	26	76	2	8	28	83
India	15	109	1	2	16	111
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	8	82	4	53	12	135
Malaysia	0	0	50	137	50	137
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	18	709	0	0	18	709
Oth Asia	0	0	0	0	0	0
TOTAL	75384	90936	2073	19547	77457	110483
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	12	95	12	95
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	12	95	12	95

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - September 90

RELEASED: December 5, 1990

		TOTAL YTD UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	652	43717
301050	Electro-discharge machines, n.e.c., NC	273	16279
301070	Electro-discharge machines, n.e.c., non-NC	283	6999
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1605	127356
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	103	20263
100035	Horiz. mach. ctrs., ATC	487	110587
100045	Mach. ctrs., n.e.c.	188	58178
200010	Unit construction mach. (single station transfer), NC	16	1822
200090	Unit construction mach. (single station transfer), non-NC	2	517
300010	Multi-station transfer machines, NC	43	31859
300090	Multi-station transfer machines, non-NC	72	31126
8458110010	Horiz. lathes, multiple spindle, NC	227	39912
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1752	123971
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	442	62694
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	44	13011
190030	Horiz. engine or toolroom lathes, non-NC	3055	32845
190050	Automatic bar and/or chucking mach., single spindle, non-NC	668	12627
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	102	8243
190090	Horiz. lathes, n.e.c., non-NC	1333	12669
911060	Vertical turret lathes, multiple spindle, NC	21	3751
911080	Vertical turret lathes, n.e.c., NC	44	8350
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	76	7482
991050	Vertical turret lathes, non-NC	72	3944
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	880	18038
8459100000	Way-type unit head machines	5	1718
210080	Other drilling machines, NC	250	16861
290040	Drilling machines, multiple spindle, non-NC	60	1771
290050	Drilling machines, radial, non-NC	346	2546
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	69	729
290090	Drilling machines, n.e.c., non-NC	386	12659
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	767
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	68	10293
310070	Boring-milling mach., n.e.c., NC	30	2256
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	27	2000
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	92	5889
400040	Boring machines, vertical, NC	1	59
400050	Boring machines, vertical, non-NC	41	1537
400070	Boring machines, n.e.c., NC	27	3282
400080	Boring machines, n.e.c., non-NC	170	5316
510080	Milling machines, knee type, NC	446	7659
590030	Milling machines, knee type, non-NC	2579	18658
610080	Milling machines, excl. knee type, n.e.c., NC	424	18771
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344
690070	Milling machines, bed type, non-NC	48	3238
690090	Milling machines, n.e.c., non-NC	625	16809
700020	Threading or tapping machines, n.e.c., NC	127	6603
700080	Threading or tapping machines, n.e.c., non-NC	145	4374
8460110080	Flat surface grinding mach., NC	110	9924
190010	Flat surface grinding mach., recip.-table type, non-NC	852	10391
190050	Flat surface grinding mach., n.e.c., non-NC	1518	15446
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	398	69335
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	359	13452
290030	Grinding mach., internal cylindrical, non-NC	177	10608
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	879	36403
310080	Sharpening machines (tool & cutter grinding), NC	189	4954
390050	Sharpening machines (tool & cutter grinding), non-NC	626	7779
400060	Honing or lapping machines, NC	32	4164
400080	Honing or lapping machines, non-NC	187	7564
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	43	3436
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1172	33284
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	8	53
200010	Shaping or slotting machines, NC	83	2974
200090	Shaping or slotting machines, non-NC	152	6186
300060	Broaching machines, NC	8	8396
300080	Broaching machines, non-NC	68	3563
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	95	8064
401040	Gear shapers	23	7025
401060	Gear cutting machines, n.e.c.	155	570
405050	Gear grinding or finishing for bevel gears	60	1679
405070	Gear grinding or finishing machines, n.e.c.	76	19888
500050	Sawing or cutting-off machines, NC	84	5465
500090	Sawing or cutting-off machines, non-NC	1579	26857
9000000001	Metal cutting machine tools, n.e.c.	262	12131
9800000001	Used or rebuilt machine tools	4868	25136
9900000001	Machine tools valued at less than $2,500	666927	69147
	Y-T-D Cutting Total	699434	1364256
	NC Y-T-D Cutting Total	8316	848108

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - September 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	14	461	0	0
8457100015	0	0	0	0	0	0	5	492	0	0
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	1	209	0	0
100045	0	0	3	81	12	1140	1	260	15	2769
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	78	0	0	13	1976
300090	0	0	0	0	7	3490	0	0	6	2775
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	5	361	0	0
110050	0	0	0	0	0	0	25	2852	2	214
110090	0	0	0	0	0	0	0	0	4	2525
190030	0	0	491	3175	56	846	4	120	0	0
190050	0	0	30	257	1	13	0	0	0	0
190070	0	0	0	0	0	0	1	35	2	351
190090	0	0	781	4277	9	29	6	138	1	3
911060	0	0	0	0	1	250	0	0	0	0
911080	0	0	0	0	3	151	17	2374	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	2	0	0	6	626
991050	0	0	0	0	0	0	7	364	2	12
995090	0	0	186	841	43	200	16	648	9	222
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	4	468	1	146	0	0
290040	0	0	0	0	0	0	1	4	4	23
290050	0	0	52	477	0	0	0	0	11	168
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	15	707	15	4807	9	2298
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	2	37	0	0	5	928
310070	0	0	0	0	0	0	1	168	0	0
390040	0	0	0	0	1	26	2	777	0	0
390050	0	0	0	0	1	15	0	0	25	456
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	20	258
400070	0	0	0	0	0	0	0	0	23	1916
400080	0	0	0	0	42	507	5	13	74	793
510080	0	0	0	0	0	0	0	0	1	13
590030	0	0	0	0	1	6	1	3	1	6
610080	0	0	0	0	1	827	0	0	3	1252
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	5	81	13	794	55	6800
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	6	53	2	6	4	70
8460110080	2	110	0	0	2	55	0	0	13	1425
190010	0	0	0	0	0	0	0	0	24	452
190050	0	0	0	0	42	252	1	8	4	62
210080	0	0	0	0	1	241	1	39	9	780
290010	0	0	0	0	129	894	0	0	2	127
290030	0	0	0	0	1	2	0	0	2	533
290050	1	4	0	0	27	340	2	81	34	775
310080	0	0	0	0	3	7	7	45	3	25
390050	0	0	0	0	25	92	2	48	7	97
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	11	125	0	0	4	43
900060	0	0	0	0	2	7	0	0	9	184
900080	1	3	0	0	30	483	39	149	150	5759
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	21	0	0	0	0	0	0
200090	3	8	0	0	43	122	1	67	5	189
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	110
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	2	211
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	3	10	0	0	0	0
405050	0	0	0	0	1	25	0	0	0	0
405070	0	0	0	0	2	76	1	129	1	76
500050	0	0	0	0	0	0	0	0	2	21
500090	5	20	72	216	209	2981	10	239	251	1430
9000000001	0	0	0	0	13	443	78	2476	22	126
9800000001	9	1423	1	20	125	1139	299	391	25	215
9900000001	18	13	143	111	441	311	913	903	25831	4784
Y-T-D Tot	45	1626	1762	10082	1322	16528	1506	20416	26699	44124
NC YTD Tot	2	110	5	537	33	3262	77	8853	110	14821

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - September 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	437	33037	0	0	0	0	0	0	0	0
301050	134	9369	0	0	0	0	2	50	1	2
301070	11	651	0	0	0	0	1	70	1	70
8457100015	910	86872	53	2988	122	6606	9	455	0	0
100025	71	13407	0	0	0	0	0	0	0	0
100035	383	92793	0	0	0	0	2	270	0	0
100045	12	3093	3	187	1	83	0	0	3	816
200010	0	0	15	1741	0	0	0	0	0	0
200090	2	517	0	0	0	0	0	0	0	0
300010	22	28576	3	179	0	0	0	0	0	0
300090	11	5021	0	0	0	0	0	0	0	0
8458110010	185	29661	0	0	0	0	0	0	0	0
110030	1462	110148	36	2107	0	0	0	0	0	0
110050	380	55086	1	64	0	0	0	0	0	0
110090	20	3958	0	0	0	0	4	556	0	0
190030	25	462	94	1089	227	2806	37	850	0	0
190050	27	1806	0	0	0	0	0	0	0	0
190070	4	1296	0	0	0	0	0	0	0	0
190090	26	2428	12	295	0	0	1	124	0	0
911060	9	1936	1	159	0	0	0	0	1	201
911080	20	5597	1	95	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	36	4417	2	204	0	0	0	0	0	0
991050	1	170	0	0	0	0	0	0	0	0
995090	30	5366	68	3810	0	0	37	215	2	18
8459100000	1	8	0	0	0	0	1	1413	0	0
210080	207	13331	2	170	0	0	0	0	2	28
290040	16	879	0	0	0	0	0	0	0	0
290050	4	86	0	0	0	0	11	243	21	101
290070	8	271	0	0	0	0	29	147	10	38
290090	38	1627	0	0	0	0	190	1659	27	113
310010	1	224	0	0	0	0	1	104	0	0
310040	1	282	0	0	0	0	1	247	0	0
310070	7	320	0	0	0	0	1	214	0	0
390040	0	0	0	0	0	0	2	180	2	17
390050	0	0	0	0	0	0	4	544	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	3	855	0	0	0	0	0	0	0	0
400070	4	1367	0	0	0	0	0	0	0	0
400080	9	1647	0	0	0	0	0	0	0	0
510080	4	791	0	0	0	0	68	532	1	76
590030	40	1176	0	0	0	0	1150	9003	2	106
610080	40	9219	0	0	19	785	0	0	0	0
690050	3	62	0	0	0	0	0	0	0	0
690070	14	454	0	0	0	0	0	0	3	452
690090	29	1685	0	0	0	0	23	202	0	0
700020	123	6156	0	0	0	0	1	59	0	0
700080	71	2595	0	0	0	0	1	51	2	60
8460110080	27	2746	0	0	0	0	1	12	2	973
190010	88	2475	0	0	312	3953	0	0	0	0
190050	42	2045	1	22	14	334	6	470	2	6
210080	206	36134	0	0	0	0	0	0	4	1941
290010	37	2475	1	25	0	0	0	0	6	584
290030	13	3042	0	0	0	0	0	0	3	1133
290050	160	16414	0	0	0	0	6	768	9	2280
310080	13	783	0	0	0	0	0	0	0	0
390050	99	2236	0	0	0	0	0	0	0	0
400060	11	1095	0	0	0	0	0	0	0	0
400080	22	1641	0	0	0	0	0	0	24	1083
900060	16	1336	0	0	0	0	0	0	0	0
900080	342	11541	13	109	0	0	16	1604	4	29
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	71	2274	0	0	0	0	0	0	0	0
200090	17	3111	0	0	37	230	0	0	0	0
300060	5	1282	0	0	0	0	0	0	0	0
300080	8	894	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	12	1662	1	42	0	0	0	0	0	0
401040	3	615	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	54	159	0	0	0	0	0	0	0	0
405070	11	2199	2	18	0	0	0	0	0	0
500050	22	2545	0	0	0	0	0	0	0	0
500090	166	6831	11	427	0	0	20	194	10	152
9000000001	34	3578	2	21	0	0	2	14	4	157
9800000001	2392	8362	0	0	6	20	16	432	113	165
9900000001	36622	5875	9074	1050	123	20	46	15	1690	1566
Y-T-D Tot	45335	662223	9396	14801	861	14838	1689	20695	1949	12164
MC YTD Tot	4851	560323	117	7894	142	7475	90	2498	14	4036

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - September 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	148	9362	44	384	0	0	0	0	20	783
301050	59	3553	14	281	30	1420	3	423	30	1181
301070	63	2951	111	1287	18	117	4	154	60	1239
8457100015	2	650	62	4314	330	18719	27	2729	85	3530
100025	0	0	23	2229	2	1321	2	2794	0	0
100035	0	0	14	1876	11	395	75	13022	1	2022
100045	5	1676	14	912	7	342	79	45527	33	1291
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	89	3	962	0	0
300090	16	2487	0	0	0	0	32	17353	0	0
8458110010	1	859	3	130	6	844	32	8418	0	0
110030	6	634	98	5360	46	2461	3	265	96	2635
110050	3	697	13	691	6	912	8	1554	4	624
110090	0	0	1	50	1	104	13	5242	1	577
190030	6	19	676	5385	346	4906	6	3590	1087	9598
190050	23	2718	233	1850	10	594	305	4945	39	443
190070	25	4161	55	391	0	0	4	1666	11	343
190090	8	822	86	415	99	1837	7	826	297	1474
911060	6	463	0	0	0	0	1	622	2	120
911080	0	0	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	9	488	1	70	1	30	3	489	17	1158
991050	12	2591	10	36	9	25	2	539	29	205
995090	7	878	7	345	74	1531	31	1604	370	2360
8459100000	0	0	0	0	3	297	0	0	0	0
210080	3	117	0	0	2	315	27	1847	1	5
290040	6	627	25	71	0	0	4	13	4	153
290050	0	0	99	591	0	0	2	16	146	865
290070	0	0	6	49	0	0	14	208	2	15
290090	5	89	2	25	2	13	16	986	67	335
310010	0	0	2	297	0	0	0	0	0	0
310040	1	398	2	3	4	1679	25	5875	27	845
310070	2	61	2	12	2	19	10	904	5	559
390040	0	0	1	19	0	0	5	455	14	527
390050	0	0	15	106	1	693	30	3650	16	426
400040	0	0	0	0	0	0	0	0	1	59
400050	0	0	12	53	2	10	1	257	3	103
400070	0	0	0	0	0	0	0	0	0	0
400080	4	1611	1	7	4	174	27	472	4	92
510080	12	239	227	2103	82	2895	5	496	46	512
590030	5	292	886	4986	85	636	18	718	390	1728
610080	5	86	99	2011	12	694	175	3201	70	696
690050	0	0	5	24	0	0	1	4	24	254
690070	0	0	23	557	0	0	4	1636	3	41
690090	8	1009	270	1459	10	766	33	2565	179	1447
700020	0	0	0	0	0	0	3	389	0	0
700080	5	16	1	4	6	357	37	1049	4	67
8460110080	5	758	26	282	18	2253	12	1287	2	24
190010	0	0	292	1999	1	4	125	1468	10	40
190050	27	1228	1189	7742	56	968	41	1406	93	903
210080	30	5194	1	57	15	5984	129	18801	2	165
290010	48	4427	12	296	35	928	30	3171	59	527
290030	22	2368	0	0	3	68	65	2892	68	570
290050	61	1512	83	370	75	1012	376	11748	45	1100
310080	14	141	34	202	4	511	94	2477	17	762
390050	64	806	146	724	125	885	129	2423	29	470
400060	0	0	2	11	5	216	13	2692	0	0
400080	2	47	0	0	50	583	37	3572	37	471
900060	1	4	0	0	0	0	9	1667	6	239
900080	29	1304	44	288	104	583	247	9834	153	1599
8461100060	0	0	0	0	0	0	0	0	0	0
100080	5	13	0	0	0	0	2	35	1	5
200010	0	0	0	0	0	0	2	286	9	393
200090	27	285	2	8	3	11	12	2149	2	6
300060	0	0	0	0	3	7114	0	0	0	0
300080	0	0	0	0	36	316	22	2243	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	4	51	71	6031	5	67
401040	0	0	0	0	0	0	17	6339	3	71
401060	80	9	0	0	20	123	48	59	2	22
405050	1	467	0	0	0	0	3	788	1	240
405070	12	6988	0	0	5	685	19	7844	23	1873
500050	0	0	8	139	0	0	50	2651	2	109
500090	12	356	103	548	86	552	289	10422	335	2491
9000000001	15	1996	1	6	9	261	31	2143	51	911
9800000001	92	928	584	358	926	6527	188	4519	92	638
9900000001	801	253	510981	43943	1733	1120	7648	2401	70863	6782
Y-T-D Tot	1803	68639	516654	95488	4528	74950	10787	248892	75093	58790
MC YTD Tot	312	25379	693	21545	589	48382	804	124701	47	18291

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - September 90

RELEASED: December 5, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	$000
8454300010	Die casting machines	312	18726
8462100030	Headers and upsetters, including cold headers	128	12848
100050	Forging or die stamping machines, and hammers, n.e.c.	655	37277
210080	Bending, folding, straight. or flat. mach., incl presses, NC	440	28531
290030	Press brakes, non-NC	238	6637
290040	Bending rolls, non-NC	76	2025
290050	Bending, folding, straight., or flat., n.e.c., non-NC	973	32128
310080	Shearing machines, NC	50	3883
390050	Shearing machines, non-NC	467	13763
410080	Punching or notching mach., incl. comb. punch & shear, NC	271	27823
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	530	9804
910060	Hydraulic presses, NC	17	18521
910090	Hydraulic presses, non-NC	2280	14633
990030	Presses, n.e.c., NC	49	4438
990035	Mechanical transfer presses, non-NC	12	14836
990045	Mechanical presses, n.e.c., non-NC	75	3900
990060	Presses, n.e.c., non-NC	595	25371
8463100080	Draw benches for bars, tubes, profiles, wire or the like	79	4808
200080	Thread rolling machines	63	3445
300080	Machines for working wire	1086	52404
900080	Metal forming machine tools, n.e.c.	521	22665
9800000002	Used or rebuilt machine tools	1009	14733
9900000002	Machine tools valued at less than $2,500	13353	4487
	Y-T-D Forming Total	23279	377687
	NC Y-T-D Forming Total	827	83196
	Cutting and Forming Totals:		
	Y-T-D Total	722713	1741943
	NC Y-T-D Total	9143	931305

Other Manufacturing Technology		TOTAL YTD UNITS	$000
1000000000	Machine tool parts and accessories	0	416612
2000000000	Parts for working rubber or plastics - heading 8477	0	245490
2710003070	Quenching or cutting oils	0	290
8428900010	Industrial robots for lifting, handling, loading or unload	1552	27385
8431390080	Parts industrial robots, handling and loading - heading 8428	0	72121
8456101010	Laser, light or photon beam for working metal, NC	139	25690
101020	Laser, light or photon beam for working metal, non-NC	67	3641
105000	Laser, light or photon beam for other materials	105	7483
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	12	150
205000	Ultrasonic processes for working other materials	56	195
8477103000	Injection molding mach., for manufacturing shoes	111	2922
106010	Injection molding mach., for rubber or oth. thermosetting	602	50872
106050	Injection molding mach., for thermoplastics	1955	183270
200010	Extruders for rubber or other thermosetting materials	180	13293
200050	Extruders for processing thermoplastics	808	51147
300000	Blow molding machines	279	37601
400000	Vacuum-molding and other thermoforming machines	149	5529
510010	Machines for molding or retreading pneumatic tires	442	37983
510090	Machines for molding or otherwise forming inner tubes	259	11836
590000	Machines for molding or otherwise forming n.e.c.	833	42010
800000	Machines for working rubber or plastics n.e.c.	8401	84942
8479899040	Industrial robots, n.e.c.	13273	54189
908040	Industrial robot parts	0	25744
8537100030	Numerical controls for controlling machine tools	9329	35118
9024100000	Machines and appliances for testing metals	0	9486
9031100000	Machines for balancing mechanical parts	0	10049
300000	Profile projectors	0	5116
9032810020	Industrial process control instr., hydraulic	121840	1753
810060	Industrial process control instr., pneumatic	206689	3583

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - September 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	93	3933	0	0	20	996
8462100030	1	1273	0	0	0	0	1	12	19	2437
100050	0	0	0	0	122	3485	95	96	21	1296
210080	3	988	0	0	44	4972	2	20	27	1367
290030	39	1188	0	0	140	4448	0	0	0	0
290040	0	0	0	0	11	101	1	367	19	388
290050	5	26	0	0	251	6209	72	1457	82	2014
310080	31	964	0	0	1	9	0	0	1	236
390050	69	1334	0	0	63	1832	2	95	17	494
410080	1	1068	0	0	1	10	1	119	2	71
490050	0	0	0	0	23	1501	1	20	59	665
910060	3	190	0	0	0	0	0	0	0	0
910090	20	29	0	0	58	3909	4	6	37	268
990030	0	0	0	0	0	0	0	0	29	222
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	2	13	0	0	1	10
990060	2	1347	0	0	196	9227	13	50	63	792
8463100080	6	269	0	0	10	1028	0	0	7	94
200080	0	0	0	0	2	25	0	0	2	700
300080	143	7897	0	0	25	1980	15	324	120	13192
900080	0	0	0	0	37	2601	16	312	91	2739
9800000002	62	1286	11	200	301	2642	30	154	24	3671
9900000002	50	6	2	2	120	110	55	75	940	289
Y-T-D Tot	450	17872	13	202	1500	48035	308	3107	1581	31941
NC YTD Tot	38	3210	0	0	46	4991	3	139	59	1896
C&F Y-T-D	495	19498	1775	10285	2822	64563	1814	23523	28280	76064
C&F NC YTD	40	3320	5	537	79	8253	80	8992	169	16717

Other Manufacturing Technology

1000000000	0	5341	0	399	0	50364	0	7315	0	16450
2000000000	0	2803	0	23	0	45661	0	24362	0	11842
2710003070	0	0	0	0	0	191	0	0	0	0
8428900010	3	160	0	0	117	2304	1	49	4	2131
8431390080	0	241	0	368	0	11641	0	791	0	1153
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	6	267	0	0	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	1	114	38	2176
106010	0	0	0	0	27	3492	44	5686	19	1110
106050	1	36	0	0	325	35527	6	1024	77	9705
200010	3	16	0	0	11	114	4	748	11	349
200050	3	390	0	0	75	4696	1	70	43	7733
300000	0	0	0	0	29	911	14	12749	16	2683
400000	0	0	0	0	7	144	0	0	9	329
510010	3	25	0	0	74	5925	31	858	73	2209
510090	0	0	60	13	13	1271	2	16	18	30
590000	0	0	0	0	77	5054	3	376	44	2972
800000	292	1021	0	0	301	3715	344	4441	92	3126
8479899040	11	258	0	0	665	1142	67	712	6	419
908040	0	110	0	0	0	1027	0	188	0	472
8537100030	0	0	0	0	41	92	1	2	204	300
9024100000	0	42	0	0	0	1128	0	42	0	324
9031100000	0	7	0	0	0	42	0	56	0	174
300000	0	0	0	0	0	10	0	0	0	9
9032810020	24	72	0	0	24	115	0	0	42	1
810060	2	1	0	0	79	9	0	0	2156	208

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - September 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	117	10122	1	70	0	0	0	0	0	0
8462100030	73	7827	0	0	0	0	0	0	0	0
100050	182	21520	10	409	5	9	1	6	13	306
210080	251	12231	0	0	1	5	0	0	4	3459
290030	11	270	0	0	5	107	0	0	0	0
290040	3	101	0	0	0	0	0	0	10	658
290050	90	7462	0	0	0	0	2	7	93	1894
310080	10	1729	0	0	0	0	0	0	0	0
390050	101	7124	1	30	0	0	0	0	14	277
410080	92	11730	0	0	0	0	0	0	0	0
490050	56	2307	0	0	0	0	146	1552	8	158
910060	3	856	0	0	0	0	0	0	4	15153
910090	186	4695	0	0	0	0	1	14	23	386
990030	12	3069	0	0	0	0	0	0	0	0
990035	4	14279	0	0	0	0	0	0	0	0
990045	39	3040	0	0	0	0	0	0	0	0
990060	98	5164	0	0	0	0	5	15	12	232
8463100080	26	2449	0	0	0	0	0	0	0	0
200080	43	1985	0	0	0	0	13	674	0	0
300080	497	18567	0	0	0	0	0	0	5	21
900080	122	4884	0	0	0	0	9	786	7	475
9800000002	66	3285	0	0	0	0	14	13	10	191
9900000002	1514	623	9	7	71	12	217	203	307	179
Y-T-D Tot	3596	145320	21	516	82	133	408	3271	510	23391
NC YTD Tot	368	29614	0	0	1	5	0	0	8	18612
C&F Y-T-D	48931	807543	9417	15317	943	14970	2097	23965	2459	35556
C&F NC YTD	5219	589938	117	7894	14	7480	90	2498	22	22649

Other Manufacturing Technology

1000000000	0	116113	0	1251	0	5072	0	2411	0	11018
2000000000	0	40363	0	763	0	751	0	677	0	802
2710003070	0	39	0	0	0	0	0	0	0	0
8428900010	665	12225	0	0	0	0	0	0	72	3130
8431390080	0	10103	0	272	0	13	0	87	0	888
8456101010	109	22607	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	0	0
105000	2	3829	0	0	0	0	0	0	3	5
201010	0	0	0	0	0	0	0	0	0	0
201050	7	88	0	0	0	0	0	0	3	10
205000	3	141	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	315	28249	6	296	4	243	0	0	2	82
106050	617	74199	36	1471	19	291	0	0	1	15
200010	60	6392	1	8	0	0	1	124	0	0
200050	54	6504	4	283	0	0	0	0	27	1354
300000	73	8599	42	234	0	0	2	281	0	0
400000	14	1203	0	0	0	0	0	0	0	0
510010	220	23156	0	0	0	0	0	0	0	0
510090	28	5676	4	79	0	0	0	0	2	4
590000	314	27041	2	38	0	0	0	0	2	140
800000	3563	33772	1900	238	4	606	14	345	32	258
8479899040	11964	37289	62	57	0	0	6	224	95	4689
908040	0	10671	0	0	0	11	0	2	0	751
8537100030	8733	34307	0	0	0	0	0	0	0	0
9024100000	0	2701	0	0	0	0	0	0	0	197
9031100000	0	8066	0	15	0	4	0	10	0	20
300000	0	1836	0	0	0	0	0	0	0	0
9032810020	155	34	14000	61	0	0	0	0	1	8
810060	1631	79	115000	207	0	0	0	0	8698	1471

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - September 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	895	3	216	6	130	12	2160	41	197
8462100030	0	0	0	0	0	0	34	1299	0	0
100050	17	3395	8	100	54	1623	62	2915	65	2117
210080	5	138	3	82	5	88	75	3728	20	1454
290030	0	0	4	32	0	0	1	4	38	587
290040	1	5	19	157	3	62	0	0	9	185
290050	22	1223	51	515	27	1249	129	8761	149	1313
310080	3	214	0	0	1	15	1	703	2	14
390050	1	181	3	15	104	1042	50	761	42	579
410080	12	3121	2	189	1	83	145	8683	14	2750
490050	18	746	28	175	72	1146	100	1196	19	337
910060	0	0	1	650	0	0	4	1638	2	34
910090	18	1054	1115	1030	11	1337	51	1485	756	419
990030	2	149	0	0	0	0	4	969	2	29
990035	1	100	0	0	1	318	6	139	0	0
990045	12	512	0	0	2	74	16	183	3	68
990060	4	23	58	2015	82	1408	38	4681	24	417
8463100080	1	3	0	0	0	0	29	965	0	0
200080	0	0	2	43	0	0	0	0	1	19
300080	35	3330	31	796	60	1226	147	4966	8	104
900080	41	2433	8	160	46	416	121	7186	23	675
9800000002	127	498	35	118	182	865	107	1617	40	192
9900000002	1027	130	4433	1546	75	85	885	250	3648	969
Y-T-D Tot	1351	18152	5804	7836	732	11166	2017	54287	4906	12459
NC YTD Tot	22	3623	6	920	7	185	229	15721	40	4280
C&F Y-T-D	3154	86791	522458	103323	5260	86116	12804	303179	80004	71249
C&F NC YTD	334	29002	699	22466	596	48567	1033	140421	517	22572

Other Manufacturing Technology

1000000000	0	27140	0	12866	0	31971	0	102275	0	26627
2000000000	0	6319	0	9026	0	6481	0	79940	0	15676
2710003070	0	1	0	0	0	0	0	59	0	0
8428900010	44	732	0	0	60	1836	548	1599	38	3220
8431390080	0	11096	0	1567	0	10478	0	13546	0	9875
8456101010	10	565	0	0	7	900	7	914	6	704
101020	0	0	0	0	6	388	57	2559	2	146
105000	9	1268	0	0	29	1057	3	24	52	1028
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	0	0	1	36	0	0
205000	0	0	0	0	1	38	0	0	51	9
8477103000	2	467	5	32	11	16	52	115	2	2
106010	16	2465	47	2304	3	32	60	3789	59	3124
106050	47	5031	81	3349	38	692	509	37258	198	14673
200010	16	837	15	215	5	276	40	3902	13	313
200050	7	2164	47	1822	81	1533	448	23740	18	857
300000	0	0	27	1018	0	0	69	10201	7	924
400000	0	0	3	28	1	4	113	3735	2	88
510010	0	0	0	0	15	560	10	1730	16	3520
510090	2	176	3	16	21	773	96	2809	10	974
590000	143	418	5	197	68	587	81	2924	94	2264
800000	377	3699	148	1854	149	1515	872	26990	313	3363
8479899040	10	1300	0	0	25	617	171	4931	191	2549
908040	0	1052	0	136	0	2236	0	8335	0	751
8537100030	12	49	0	0	13	67	227	226	98	75
9024100000	0	279	0	12	0	2000	0	1725	0	1036
9031100000	0	59	0	3	0	122	0	391	0	1081
300000	0	469	0	0	0	1967	0	446	0	380
9032810020	2686	139	0	0	10580	58	182	22	94146	1243
810060	1	2	58575	253	1833	61	14636	615	4078	675

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1684	10232	9	258	1693	10490
Bulgaria	0	0	0	0	0	0
Czechoslovakia	82	1202	1	85	83	1287
Denmark	410	1921	132	759	542	2680
East Germany	689	2323	150	4	839	2327
Finland	50	348	62	2912	112	3260
Hungary	10	628	0	0	10	628
Ireland	16	90	2	14	18	104
Luxembourg	0	0	0	0	0	0
Netherlands	365	3611	251	719	616	4330
Norway	2	14	3	185	5	198
Poland	325	4774	0	0	325	4774
Portugal	172	554	70	1094	242	1649
Romania	1	19	0	0	1	19
USSR	10	133	1	9	11	143
Yugoslavia	592	5049	25	1915	617	6964
Oth Europe	68	2126	11	213	79	2339
TOTAL	53482	524527	8074	171357	61556	695884
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	1	5	128	61
Mexico	478	854	498	1108	976	1962
Oth N & C Am.	0	0	0	0	0	0
TOTAL	1927	17438	1999	49148	3926	66586
SOUTH AMERICA						
Argentina	23	165	5	23	28	188
Chile	0	0	0	0	0	0
Colombia	2	18	1	3	3	20
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	3	326	1	2	4	328
Oth South Am.	0	0	0	0	0	0
TOTAL	1791	10592	20	230	1811	10823
OCEANIA						
Australia	106	1792	23	1021	129	2813
New Zealand	1	5	116	643	117	648
Oth Oceania	0	0	0	0	0	0
TOTAL	107	1797	139	1664	246	3460

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	66603	14944	3340	518	69943	15462
Hong Kong	2818	476	17	28	2835	504
India	151	1345	13	28	164	1373
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	199	3313	69	400	268	3712
Malaysia	35	5	51	287	86	292
Pakistan	0	0	0	0	0	0
Philippines	4	15	1	21	5	35
Thailand	58	2314	0	0	58	2314
Oth Asia	1	68	0	0	1	68
TOTAL	642116	809831	12994	155086	655110	964917
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	59	53	203	58	262
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	11	70	53	203	64	273

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.